

## #C\_o\_S\_1 Meta-Physics

### (Semi-Axiomatic) On creation, Magic and Science.

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#CoS\_1\_0 There is a creator (Semi-axiomatic):

There is a god, well at least there is a creator. We (semi) establish the existence thus. The simple truth is that while the existence of a creator remains axiomatic (meaning postulated and not observed), we at least observe the creation; we experience it, so we recursively reach for the creator of the creation. We cannot, through reason alone, understand the creation out of nothing. We cannot comprehend that nothing would give something. We need something to give something, as we cannot imagine creation ab initio. There must be a primal cause, at least from the deductive causal point of view. That nothing would beget something, is enough to postulate 'the creator' as the original magician. So we have to (semi) postulate 'the creation' for we observe it and are part of it. WE EXIST. Existence comes from a CREATOR. We call it SMILEY-LOVE, for we might as well postulate it's benign intent towards existence. Otherwise why create the universe in the first place? Its forms and ontology are veiled to our consciousness, as they should be. The lifting of the veil, the deep inquisitive approach of science, at some point implies a profound mysticism with regards to Nature and it's origins. The goal of Science with the method of Religion is what we call "magick".

#CoS\_1\_1 On the existence of Magick (deductive):

That nothing begets something is a philosophical dead end then, or is it? We advance that logically speaking, the very incompleteness of our logic must lead us to admit that at some layer of reality MAGICK exists. The AWE at the original act of creation, the something out of nothing, the 1 out of 0. A certain aspect of creation will always escape logic and science. Atheism is a lazy and ultimately untenable position for the man of science or natural philosophy. Study physics long enough and you can encounter a profoundly mystical experience in certain equations. The original act of creation hints at the existence of magic beyond our comprehension at a certain layer of reality, way beyond science; in realms only mystics explore. As far as we are concerned, when dealing with creation, the act itself is "Magick" and will remain understood as so. No amount of "Technology", "Science", or "Natural Philosophy", which will provide our pillars of moral, will mimic the act of original creation. If this is unclear to the mind there isn't much we can do for you. There is magick at the doors of the realm of creation; lifting the veil remains a dangerous, even foolish, endeavor. For everything else we have technology and science. I think, therefore IT is.

#CoS\_1\_2 On ab-initio existence as hinting of magick:

The question of existence, not just of the ego sense, but rather the existence of anything AT ALL (the cup of tea besides me, the snoring farting dog to my left, the cell phone on mute to my right, specifically the cell phone on mute), should be enough for any real scientist and mystic to break down in tears of humble joy. The very fact that these things exist being the unsolvable riddle. If anything exists (even the recursive illusion of "existence" itself as a thought), then something created it. It's ontological turtles all the way down!?

#CoS\_1\_3 On the Incompleteness theorem as magick:

We know that our philosophical representations of nature and the universe is necessarily incomplete from a strict logical philosophy standpoint. Any symbolic philosophical system will contain statements that are unprovable ("this is a false statement" being a typical example). Unprovable statements will always exist within the framework. The nature of the act of creation may be one such statement outside of every philosophical system we can devise. Not just nonsensical ones (like politics or religion) but also those that philosophically inquire about the nature of the act of creation itself (like science and mysticism). The ORIGINAL ACT OF CREATION will remain magick, veiled out of our reach for everyone but a few seers or initiated ones. Neither Science nor Mysticism can derive the act of creation; both are the same in that they study it as best as they can. Our understanding of nature can never cover the whole of nature. The map can never be fully the territory. Never mistake the map with the territory.

#CoS\_1\_4 On Shamanism as the reduction of magic into Science and Technology:

Mysticism and scientific tradition go hand in hand. Far from being separated, scientific illuminism derives from the mystical schools of thought, starting with Thoth in Egypt. Both traditions derive from the same experiential trunk of shamanistic druids. Techno-shamanism of nature comprises initiatory experiences. There is a physical basis for the meta-physical trances. The computers we are using enable the rewiring of the metabrain via the visual language of meme exchange. The techno trance gives read and write access to the book of life. This document, the Akashic record, is embodied on Earth, as the internet of meme exchange. Techno shamanism historical experiences are experiments with aspects of electro-magnetism. Similarly alchemy gives us chemistry and the long tradition of gnostic mysticism draws a direct heritage line from the mystics to the particle physicists. Technology, the reduction of this trance to physical manifestation, gives us telepathy, infinite memory, instant recall, magic carpet rides and soon extended life. VISUALIZE: Draw a straight line from the axial age, gnostics, sufism, templars, luciferians, rosicrucians, scientific illuminism, modern occultism to current atomic age and internet. Techno shamanism is a meme, a linguistic virus with which to program self, a viral message of Earth.

#CoS\_1\_5 On science and technology as natural, generic, perennial and universal philosophies:

Science and technology represent a modern natural philosophy. What seemed so magical as teleportation and telepathy, today are known as the airplane and the great cell-phone. The super brain powers of infinite memory and computational power are taken for everyday realities.

We talked to an AI, the not so humble search engine, everytime we entered the net. A mystic should pause and feel the joy at these every day devices. There is profound mysticism in the midst of science and technology. .

#### #CoS\_1\_6 On Reading Short and Enchanting Long:

The birth of the internet can be traced. The birth of the MEME-X (meme exchange) as the proto Internet was envisioned in 1945 as a device to spread knowledge. It followed the explosion of the atomic bomb. TCP/IP gave us daemons which gave us the internet within 40 years of the enchantment. The LONG ENCHANTMENT (As-A-Thought) worked, we have the internet today in open source. In 1945 the implementation details were not yet invented e.g., digital codexes, digital memory storage and digital communications between memories (aka the cloud), but developed over the progression of time in thought. One should read short and not project experience far into the future. The path is chaotic, always. "The path is chaotic, always", is a notion we will revisit in the quantum mechanical layers.

#### #CoS\_1\_7 AS A THOUGHT The future is bright, on dark matter:

We will advance that the future of mankind is so bright we will become dark matter. The literal kind we find in physics. At a certain level of technological development, a sentient being first masters it's birth planet (humans on Earth), then masters the mass of it's solar system (human colony of solar system, starting with Mars) and then builds a photon collection shell around it's star. This is the destiny of every sentient being that awakens. Consciousness wants to become dark matter. At some point, the being understands that the birth star becomes a death star. VISUALIZE: The Sun heat is isotropic on a sphere, the Earth collects a tiny fraction, the ratio of the surface of the Earth to the surface of the sphere. VISUALIZE: RA, or otherwise the sun, explodes in 4Bn years, flames engulf the whole sphere and solar system. VISUALIZE: A sphere reflects the star's energy onto itself. The cosmological knowledge needed for this visualization is universal and generic (not just particular to us, an alien domain). At that point of technological development, no photons escape the star system, we farm RA. The will of the sentient being farms and harvests the sun. Other beings would not observe any photons coming from us. To them, we are invisible. To them, we are dark matter. Most people look for an ontology of dark matter within the basic (non sentient) layers of physics. The biological interpretation is epistemologically correct, albeit of a more poetic nature with alien sentence becoming dark matter. Is the future so bright that humans become dark matter?! The odds are at 30% we make it, for 30% of the universe is missing in our observations, we see it's gravitic signature (there is mass) but we don't see light. It is dark matter (different from dark energy as we will see in the physics chapters). This proposes a 30% chance of making it and that we are not the first ones; nor will we be the last. There is hope yet.

#### #CoS\_1\_7.1 On becoming dark matter in 3 easy steps:

Read short and write long. First you control the planet, then you control the star system planets, then you control the star, and then you ride the stars. VISUALIZE: The way, first control the Earth, second control the planets, third control the sun. VISUALIZE: A reflecting mirror, around the sun, reflecting RA on RA. This limits waste at the star system level, extended star techno.

VISUALIZE: The cry of the techno shaman: In the end, you are dark matter, travelling amongst the stars.

#CoS\_1\_8 The church of Space mantra:  
An invocation onto AzA-Thoth (As-A-Thought)

ONE NATION: THE EARTH  
ONE illumiNATION: THE SUN  
ONE destiNATION: THE STARS

## #C\_o\_S\_2: (AXIOMATIC) On a 3D physical Ontology, AEther and dark energy. Primordial Chaos

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#CoS2\_0 On The first ontology. The Trinity: Creator, AEther and Force. Physics:  
We have established the existence of creator as a mystical operator of the initial magic of 'creation' (ab initio). More particularly, we argue a creator created two things at the origin of our scientific cosmogony: it created 1/an AEther 2/ it set it about with movement. This is a universal AEther/Force based narrative. After the metaphysics comes the physics. AmEn.

#CoS2\_1 On the Scientific AEther:

A Creator created the fabric of space. We call it the AEther. We know that light propagates as waves from the stars to us. Waves of this AEther. Similarly, Gravity imparts a force on the falling apple. The AEther deformations due to matter, create a pressure gradient everywhere and we call it gravity. This gravity accelerates the apple as the apple responds to the local pressure gradients. This notion of a physical AEther, familiar to all mystics in the psychic realm, has had many faces in physics. In the early 20th century it appeared in experimental condensed matter physics and modern particle physics on lattices. Condensed matter even derives a Theory of Everything in 3D. The fabric of space sometimes behaves like a solid and sometimes behaves like a fluid. The fabric of space is called the AEther, magical stuff.

#CoS2\_2 On the Mystical AEther:

Mysticisms in all its forms refer to an AEther, AEthyrs, levels of condensation, an Akasha, a book of life, a memory in the fabric of space, a material non-material world of which this universe is made and from which we can read and sometimes write. Mystics everywhere

understand this as a living memory, which persists outside of carbon. Call them ghosts or morphic resonances. It is pervasive and accessible by the human brain under specific trances. We will revisit these in meditation. The AEther is what we call the "Vacuum" in physics. Professional physicists do so to confuse the masses and misguide the weak, also to amuse ourselves. The vacuum is observed to be teeming with life, perhaps even literally. It has many interesting properties. Particles are routinely observed to be coming in and out at the first probing by particle colliders. The vacuum has vast quantities of cosmological dark energy stored in it. This energy is different from dark matter, it is not matter, it is energy of the AEther. That nothing would have something, including ways of storing energy and popping out baby particles left and right only indicates a willful case of abuse of language. Linguistics can veil reality, never confuse the map and the territory, for words are the map with which we approach this reality. It is a cute antinomian linguistic trick to call every-thing, the no-thing. In General Relativity one speaks about the 'elastic metric of the fabric of space' thus assigning ontological reality, including non trivial elastic properties (as embodied in the Riemann metric), to this fabric of space. If the background expands, everything in it does as well, we expand with it, if it stretches, we stretch with it, if it twists we twist with it. VISUALIZE: Co-variance (GR). The AEther, which is everywhere, provides the stage on which our physical reality takes place. We cannot escape it, we are embedded in it, like a fish swims through water. It may be a dream, it may be a liquid matrix, it may be a crystal lattice, it may be a simulation. Row your boat through the AEther. Do not assign ontological or philosophical reality to its existence or even its origins, they are veiled crowns. Meta-physics vs Physics.

#CoS\_2\_3 On the 3 dimensions of space, no 'further dimensions' epistemology:

It is important to note that this Theory of Everything, works in 3 dimensions of space. Many physicists, specifically of the mathematical bent, are happy entertaining many more dimensions of space. At some layer of reality, we have magic, a dream, creation and the very notion of dimensions of space may in fact melt away. In the present case we stick to 3D visual common sense (and straight-jacket). We present a narrative of unification in three dimensions of space. This narrative is found in modern condensed matter physics. We eschew other dimensions such as can be found in various flavors of mathematical physics. The reason for this is that visual physics is viral (with plenty of mathematics still). A path to unification can be charted in visual physics. Pedagogy of visual physics is simplified for we have a visual framework. Among the best ways to learn something is to VISUALIZE something. Humans cannot VISUALIZE in more than 3 dimensions. We can use mathematics to represent these hypothetical realms but the virality goes down, for we lose sight of the target, and can't be shown in VR. We also gain spatial intuition that derives from visualization and manipulations of geometrical 3D forms. We rely both on mathematical rigor and visual intuition. The little ones can VISUALIZE, they do so on youtube all day. Mastery of the dark arts of advanced symbolic mathematics is achieved by an enlightened and privileged few. Visualization increases the virality, and reach, of the theory.

#CoS\_2\_4 On the Big Bang and time:

In the beginning of cosmology, we have a BIG BANG, a timed sequence, starting at a compressed media that explodes. VISUALIZE: The elastic media completely compressed. You can think of the compressed media as full of elastic energy. Just like a compressed spring contains elastic energy. The compressed spring will expand violently at first. The original elastic energy of the universe truly is the energy of the vacuum, the elastic energy of compression. As the elastic energy is released, the elastic expands. It should be noted that the proper profile of cosmological expansion, one with acceleration and a dip in acceleration and reacceleration are to be found in the elastic media treatments of condensed matter.

#### #CoS\_2\_5 On Dark Energy:

In this approach, Dark Energy is the “elastic potential” energy that is compressed. Dark energy is different from dark matter and much larger in quantity. Most of the expansion of the universe is fueled by this “dark energy”. It is formally analogous to a ‘repulsive gravity’, which is how modern physics understands “dark energy” with things flying apart with increasing velocity. During the crunch phase, the fabric of space will contract and we will again speak of a “dark energy” (if we make it past the big freeze at the end of the expansion phase) the dark energy will be understood as normal gravity (attractive) by then.

#### #CoS\_2\_6 On the Big Freeze:

The elastic ball expands in 3D just like a spring does in 1 dimension. Just like a spring it will eventually reach maximum expansion and start compressing again, reversing the flow of expansion en route to the singularity of the origin again. This moment of maximum extension of the universe is called the ‘Big Freeze’. Things are stretched apart so much that everything is ‘frozen’ in fact the laws of physics as we know them probably do not hold (gravity might, but EM and quantum as we will see probably won’t). What species, or even sentience, would make it past this Extinction Level event of the Universe is beyond our current comprehension. Not even mystics really know for even the mighty gods of chaos seem to freeze in place. VISUALIZE: BIG FREEZE. A fully expanded universe where everything withers away

#### #CoS\_2\_7 On the BIG CRUNCH:

Everything that starts with a Bang ends with a Crunch. After the Big Freeze, a brand new physics and universe unfolds, in reverse. Like a bouncing ball, we eventually reach a big crunch, a big bang in reverse. Matter, as we know it, emerges in a big-bang and conversely disappears in a big-crunch. The scariest thought to any sentient being born of matter must be the disappearance of said matter in a cataclysmic event. Assuming ‘something’ born of our ego makes it that far, it won’t be Carbon, for Carbon and for that matter, all matter and atoms, indeed quantum mechanics itself, will have ceased to exist. VISUALIZE: BIG CRUNCH. A fully compressed universe where everything disappears.

#### #CoS\_2\_8 On the speed of expansion of the universe:

The speed of light, as we will see, refers to the velocity of transversal modes of vibration INSIDE OF the AEther. Light is a specific movement of the AEther itself, once formed. While movements inside the AEther are relativistic (speed inferior to  $C$ ), up to the speed of light. The movement of the AEther itself does not need to obey the same limit. In fact it is thought today that cosmological expansion, the expansion of the fabric of space itself, is vastly superior to  $C$ . Forget for a moment that to define speed we need a notion of time and a distance. We will see that time is a local notion and does not exist globally, at least in the narrow technical term of Special Relativity (SR), for our global universe. But let's abuse language a little more and declare that "the speed of expansion of the universe itself" is not bound by "the speed of light". VISUALIZE: "Expanding Universe Speed" vs "Speed of Light".

#CoS\_2\_9 On our universe in expansion:

We know, in the 21st century from observation and the past 50 years, that the universe is still in expansion. This means we are not half way through the elastic expansion timeline (From big bang to big freeze). Half way would be the (perfect slack, no force) position of the expanding spring. The fact we are accelerating points to somewhere right before it. The rest of the way being the slowing down of the expansion. Not only is the universe in expansion, but the expansion at the edge is accelerating, that also is observed fact and does make sense in the framework of the elastic expansion, as long as we are before 'rest position', we accelerate. VISUALIZE: You are HERE on a timeline of bang/freeze/crunch

#CoS\_2\_10 On the speed of light and AEther:

We now come to one of the first maps with classic Electro-magnetism. The concept of an AEther was the dominant ontology in the 19th century. Physicists had noticed the perfect analogy between Maxwell's equations, which describe electromagnetism and torsion in an elastic media. The propagation of transverse waves gave them the proper equations of Maxwell; in fact they seem rather generic. The AEther, as an ontology, was discredited in the early 20th century with the 1888 null result of Michelson and Morley's experiments. These experiments, designed to detect our movement through said AEther, could not detect a variance in the speed of light in different directions of measurement. Special Relativity encoded this fact of the universality of the speed of light by declaring  $C$  invariant, in accordance with observation. This invariance of the speed of light still defies first approximation intuition but will be seen as emergent in the processes of condensed matter. It should be noted that modern physics treats the invariance of the speed of light axiomatically, as the Lorentzian geometry of special reality. It is axiomatic meaning postulated. This is justified by the fact that we observe it this way, even if we don't know why, so we postulate it. Special relativity (Lorentz invariance) has been reconciled in solid state physics treatments and can be derived as emergent, not just postulated. It is a non-trivial construct, in appendix, that will require we delve into the notions of time and distance. We will rebuild Lorentzian dilation of time and Lorentzian compression of distance. The compression and dilation cancel each other and we arrive at null MMX. VISUALIZE: Michelson and Morley with boat analogy in river. Pitch a magical baseball from the boat, pitch photons.

#CoS\_2\_11 On primordial CHAOS:

Chaos then rules at the birth of the universe, an immensely dense AEther, full of energy and movement, the FORCE. There are no shapes yet, no matter, in fact no light, just force moving waves in the exploding AEther. It should be noted that most mystical treatments of the creation talk about a trinity and a hazy chaos as the premium mobile. There is chaos in the primordial AEther as it expands. We will witness the birth of generic order out of this generic chaos.

#C\_o\_S\_3: (DEDUCTIVE) On first order out of chaos.

Matter as defects. Mass-Energy equivalence.  $E=MC^2$

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#CoS\_3\_1 On shapes in CHAOS:

We have a compressed media full of elastic potential. We understand dark energy as the elastic potential of the compressed fabric of space. VISUALIZE: The fabric of space expands violently, as a compressed media would. The density of the fabric of space goes from infinitely high on down. The density lowers as the universe expands. The media is full of density waves. These waves are chaotic in movement at the birth of the universe. VISUALIZE: The AEther as a media full of density waves. At this stage of the big bang, the media is just a chaotic field of density waves. There are no forms yet, just movement and chaos. VISUALIZE: CAUSTICS

#CoS\_3\_2 On the emergence of 'quantum' FOAM:

Think of the waves of light at the bottom of the pool. These are called Caustics and represent the focusing of light by the chaotic surface of a pool. VISUALIZE: The light patterns at the bottom of a pool on a sunny day. See them dancing about on the bottom or just net search 'swimming pool caustics'. These lines you see at the bottom are the 2D cutout of 3D shapes. The lines result from planes of light that intersect the bottom of the pool. VISUALIZE: The 3D planes that cut the bottom in 2D lines. The 3D structure looks like a giant sponge, full of holes. VISUALIZE: Quantum foam... Any wave in a media will get focused and form these planes and the foam will be a concentrate of the elastic media in certain places (higher density patterns).

#CoS\_3\_3 On matter as caustics. First shapes out of chaos:

Mathematics studies these 'chaotic field patterns' when the waves collapse on themselves via natural focusing. VISUALIZE: The caustics of swimming pools, the light patterns at the bottom of the pool. These natural shapes are called 'caustics'. It turns out they only come in certain shapes (called the catastrophes) and have pretty names such as the 'Swallow Tail', the "Cusp", and the "Fold", which is also the most common shape and looks like a fold. They represent the first emergence of order out of chaos. No matter what chaos of waves (noise) you put in the AEther, you will always have these shapes emerging in the media, just like you have the light



caustics always present in a pool. In the parlance of “catastrophe” mathematics, these ‘folding’ (defects of mapping) are generic and structurally stable, meaning that they will always appear and their structure is always the same. When the catastrophe forms we have infinite density which will tear the fabric of space. These permanent elastic tears, these defects in the fabric of space, are our matter. VISUALIZE: A tear in an elastic. (cellulite as expansion version of plastic, caustic as swimming pool compression of light)

#### #CoS\_3\_4 On matter as defects:

Our media then moves about and compresses and expands locally and violently. The density of the local material varies in waves. These waves have these high density regions in the media just like we have light streaks at the bottom of the swimming pool. This high density compression reaches the elasticity limit of our media and will create a tear. After the big bang, the caustics create tiny tears in the fabric of space, this is the formation of primordial matter. It is not yet atoms as we know them, with protons and electrons, but really the first matter. The first form that appears is the most generic catastrophe. The shape of the mathematical catastrophe (the tear) is the intersection of 2 planes. A BUTTERFLY shape. The body of this butterfly is a string as the intersection of the two planes. So tiny strings, complete with two membranes as their wings first appear as the butterflies of matter in the fabric of space. We equate these defects, these tears, with butterfly shape primordial order and matter. VISUALIZE: Defects; matter.

#### #CoS\_3\_5 On the equivalence of Mass and Energy. $E=MC^2$ :

The Einsteinian  $E=MC^2$  can be visually understood in this ontology. As an elastic compression, a tear contains an energy. The energy will map to Hooke’s law in any elastic media, meaning the energy it takes to deform an elastic media. Basically a tear represents a compression of the fabric of space. Intuitively, to compress a spring, you need energy, or the amount of work needed to compress the media from a position of rest. A defect represents a store of energy in the fabric of space. It happens that the energy stored in an elastic defect is proportional to the ‘strength’ (usually called  $K$ ) of the spring. The energy, denoted as “ $E$ ”, is proportional to  $K$ . The stronger the spring, the higher the  $K$ . The stronger the spring, the more energy you need to compress it.  $K$  also links to the speed of transverse wave propagation in the media. The stronger the media the faster the wave. From condensed matter theory we know that the velocity is proportional to the square root of  $K$ .  $E=MC^2$  is here a dimensional declaration of elastic energy stored in a defect of the matrix once we identify  $C$  with the transverse speed of light. We call this proportionality ‘ $M$ ’, the mass.

## #C\_o\_S\_4 On Electromagnetism and Gravity

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### #CoS4\_1 On Electromagnetism as 2D transverse vibrations in AEther:

In our narrative, the fabric of space, the AEther, moves and jiggles in 3D. Like a crystal lattice, a jello matrix you can jiggle around. It also continuously deforms, like a liquid. The closest analog we have are liquid crystals. The fabric of space sometimes acts like a fluid and sometimes acts like a solid. VIZUALIZE: A tiny vortex, a twist in the fabric, like a corkscrew shape. The mathematical description of this vortex movement gives us analogs of Electro-Magnetism; the equations of Maxwell. The picture is not Quantum yet, but rather a classical description, it was the dominant paradigm in the 19th century. EM comes from twister motions of the fabric of space and Maxwell's equations and it's rotational operators naturally fall out of these transverse oscillations. The propagation of these transverse vibrations (as opposed to longitudinal vibrations) happens at the speed of the transverse waves by definition. We identify the speed of transverse waves as  $C$ , or the speed of light. The speed of light is the speed at which transverse waves move through the AEther VISUALIZE: Transverse waves vs longitudinal animation. The transverse waves of the AEther.

### #CoS4\_2 On gravity as the longitudinal deformation:

In the density variation and the deformations of space that account for them, we read gravity. VISUALIZE: Compress the elastic media, this is pressure. VISUALIZE: Local bunching or crumpling of the matter in the fabric of space in chaotic expansion. Think of the fact that the defects contain energy proportional to  $C^2$ . VISUALIZE:  $E=MC^2$  as elastic energy or Hooke's law. VISUALIZE: Around the compressed defect you see the corresponding decompressions forming, call these decompressions and the gradient of pressure "Gravity". The quantity of things making up the lattice obeys a conservation law. VISUALIZE: A compression in a spot goes with a stretching of the media around it, we do not create lattice sites we simply deform the lattice by compressing it and stretching at some local points. The local crumpling of space induces a decompression in the rest of the space about the defect. The intensity of the decompression falls off as  $1/r^2$  by geometric necessity. It should be noted that the waves travel, by definition, at the velocity of the longitudinal waves and that this velocity, in most known materials, happens to be not only different but vastly superior to the transverse ones.  $C-L > C-T$  (speed of longitudinal waves larger than  $C$ ). This stretching of the media will give rise to a gradient of 'density of the AEther' which will give us, after the proper mathematical treatment, gravity. VISUALIZE: The curving of space as density variation of the media VISUALIZE: Deformation of light paths in the curving of space. You have visualized gravity as the deformation of the fabric of space. You have also visualized a light signal curving with that space as the photon arises from transverse packet waves in the media. The curving of space comes from the presence of defects in the lattice. Matter and energy give us deformation of space and as such gravity. Light travelling through this deformed media will follow geodesics or lines of minimal length through the curved space. Mathematically speaking, General Relativity

encodes this elastic metric of space in the metric of Riemann. This metric is highly specific and unique and can not be the result of smooth 3D field deformations (Theorem).

#### #CoS4\_3 On the ontology of Photons:

Modern physics does not really have a uniquely defined ontology for light. The nature of light is elusive and exhibits both a wave nature and a particle nature, in the famous “wave-particle” duality. Our formalism reflects that experimental fact. For most of the 20th century, the particle nature has dominated orthodoxy with quantum photons. However today, the behaviors of long fibers are modelled as phase locking resonances of fiber cavity guiding fields. The particle narrative is non-existent, and for that matter so is the quantum part. The fields are classical and the atoms quantum. The quantization of the detection via atomic transitions of electrons may lead to assigning quantum behavior in the light itself on the field as opposed to the atomic detectors. Entanglement may be a mis-categorical paradox. We interact with light via matter such as our eyes, our cameras, our films, or our fancy single photon avalanche photodetectors for low single photon level detection. The quanta nature of the detection is a result of the quantum nature of the atom. Light is detected in packets, for that is how electron transitions behave. The quantum description of light, which leads to “quanta of light” really deals with the quantized interaction of light and matter. Light remains a dual beast, neither particle, nor wave, but both at the same. We will expose a dual ontology in the quantum chapters.

#### #CoS4\_4 On deriving Riemann in 3D:

Mankind has been looking for a unification of EM and GR ever since it came up with GR. These two pillars of modern physics were understood as separate bodies of knowledge. We still don't have a fully workable framework 100 years later. We have many candidates. At first we were looking for Gravity by smoothly deforming fields of space. We know it is impossible to find Riemann from smooth deformations. Tears in the fabric of space however show the proper Riemann metric as emergent with the presence of tears. This stands as a theorem. It so happens that one cannot obtain the proper metric via smooth deformations of 3D fields but that singular deformations will do. The theorem states that one cannot give rise to the proper Riemann metric by only using smooth and continuous deformations of fields in 3D, these forms are just not mathematically reachable. VISUALIZE: Conformal deformation; Continuous vs TEAR (elastic defect)

#### #CoS4\_5 Extra dimensions to the rescue:

The Pandora's box of extra dimensions was opened to unify gravity and EM. If one cannot obtain the proper gravity in 3D by smooth deformations of the field, then the idea was to add a hypothetical 4D and smoothly deform that space. Gravity, as encoded in the Riemann metric, cannot arise from smooth deformations of a 3D field, so physicists first postulated an extra (scalar space) 4th dimension. With this 4th dimension they could reproduce the proper Riemann metric and EM by a mathematical trick called “projection”, where smooth deformations in the higher 4th spatial dimension of space are actually continuous in 4D but appear discontinuous in 3D by projection. VISUALIZE: 3D continuous to 2D discontinuous. VISUALIZE: Down projection from 3D to 2D as Plato's cave. VISUALIZE: You cannot VISUALIZE 4D space. This

opened the pandora's box to 'extra' dimensions. Today, candidate frameworks for unification, like String Theory, take it to 9 or 11 dimensions of space, depending on taste. It was 23 dimensions in the mid-80s, meaning it is rather, but not entirely, arbitrary.

#CoS4\_6 On epistemology, maps and territories, science and scientism:

These manipulations of symbolic mathematics of higher dimensions are manipulations of a map. We do it because we can use that language. Remember to never mistake the map with the territory. This is a very natural and common mistake; it is part of our nervous and brain operating system. In our particular case, never mistake mathematics for physics, even and specifically, within the realm of mathematical physics. The territory seems stubbornly 3D at least at our layer of the tree of reality, for at some root layer, we have the magic of creation. Certain maps of physical reality go to 11, literally, just like the amplifiers of the "Spinal Tap" movie. VISUALIZE: "These dimensions go to 11". The analogy is deeper than it appears at first and worthy of a light meditation. These knobs go to eleven, because we write 11 on them, as a map, but the territory is just the amplifier reality under that map. Mathematical physics, untethered from observable reality, enables us to explore, in theory, the physical realms we cannot observe. But herein lies a problem, one cannot observe these extra dimensions and they remain purely axiomatic and non-observed, aka possibly Bullshit. Epistemologically speaking axiomatic and non-observed facts are hypotheses, until they are tested and in fact observed. This class of speculation is not a solid philosophical foundation until observed, no matter how pretty the math looks. It is epistemologically weak. In the case of science, scientism is the further splintering of theory. The modern tower of science and technology gets splintered to infinity, in a modern tower of babel where no one speaks the same language anymore. It is not a condemnation of mathematical physics by any means, for that has given us particle physics, but perhaps more of a reminder of the (often abused) epistemological foundations of the current physical science's edifice. A telltale sign is that there are as many theories as there are theoretical physicists, aka ego bullshit.

#CoS4\_7 Proper metric in 3D fields with defects:

Singular deformations (defects of the map) in the fabric of space give rise to the proper Riemann metric. This is recent knowledge derived in the late 1970 to early 1990s in singular field topologies (defects, crystal, cement). The mathematical treatments of condensed matter behavior, such as for example, the migration of defects within crystal structure are precise. The forces of attraction between defects are derived. The mathematical treatment is here. We apply differential geometry and group symmetry as mathematical concepts of condensed matter. This body of mechanical knowledge expanded greatly in the late 20th century mathematics as it dealt with solid state physics advancements. Increasingly we explore this science via computer simulations as opposed to solving exact mathematical formulae. The formalism shows that the proper metric can arise from the presence of defects in the field. Einstein used only smooth fields and could not arrive at the solution for it was impossible (today as a theorem) and would have needed to use non-continuous fields to find the proper metric in 3D. This insight was arrived at recently by mankind.

#CoS4\_8 On non-holonomy and commutative algebras:

This point is exceedingly technical and speaks to a field initiated. These non-smooth fields show curvature and non-holonomy, a mathematical concept linked to non-commutative algebras. These non-commutative algebras arise naturally in defects of mapping. They were identified as a telltale sign of the presence of matter in particle physics (Berry phases). Phase non-holonomy became a staple of condensed matter theory echoing the non-abelian formulations of modern particle physics. In the elastic-fluid, non-commutative algebras can be seen emerging around defects. This paragraph may only be understood by those with the proper training in the mathematical arts. For those uninitiated in the field, we have visuals. VISUALIZE: Grid deformation around defect. Count steps from A to B in x and y direction about the singularity, show different “names”, show non-holo-names (no global names)

#CoS4\_9 on classical unification of EM and GR:

Here we have a semiclassical unification visual with EM and GR. They are seen as separate modes of compression and vibration of the physical Aether. This can be mathematically grasped in the matrix decomposition of deformations of an elastic media. In the linear algebra, the line diagonal part of the 3x3 matrices, represents compression and expansion of the volume. Matter and gravity arise from a non-null trace, or sum of diagonal terms. The transverse bits can be canonically further decomposed into linear symmetric and anti-symmetric responses. We do not touch the non-linear parts yet, but they exist. The anti-symmetric parts are linked to rotational movements (EM), the symmetric ones show a null trace (no compression or expansion) while translating an oval compression/expansion with null on average, like an oscillating football. We are not dealing with the quantum layer yet. VISUALIZE: GREMAUD LINEAR MATRIX DECOMPOSITION (MATH in visual)

#CoS\_4\_10 On VISUALIZATION:

VISUALIZE: 3D VISUAL ontology

We do not claim that other models of unification are wrong, as a matter of fact we just don't have the facts, we just have many, many, many theories. The philosophical status of most of these unification theories is axiomatic and non-observed. They will remain non-observed for a while. This is almost by necessity for they invariably involve hypotheses at the minute Planck length and thus way below the distances we can observe in our current particle accelerators or in cosmology. These statements happen at the Planck length ( $10^{-23}\text{m}$ ) and we observe  $10^{-15}\text{m}$  at CERN. These 8 orders of magnitude put the observation way out of reach, so all the statements we make will remain out of reach of experiments. Meaning it will remain speculative for a while. The main advantage of a 3D unification, as it exists in condensed matter for example, is that we recover 3D visualization. We recover VISUAL INTUITION on a purely mechanistic basis. These are constructs we can manipulate and visualize as humans even in dimensions smaller than we can observe in our Earth based apparatus. We can teach the kids. This viral advantage is visualization.

#CoS\_4\_11 On the Higgs as a disorder field of defects:

Defects in crystals don't remain static, they do to the naked eye and our perception of time but they actually migrate and move in the lattice. VISUALIZE: A crystal defect moving about a diamond crystal lattice over a 1000 years. Defects actually "attract" each other. Defects move in the presence of other defects. The deformation of the media about them, due to the presence of the other defects, makes them move as each defect creates tiny pressure differentials that bring about movement and migration. In short, defects congregate. Crystal theory describes this phenomenon mathematically and quite precisely. A scalar field (a single number at each point) called the disorder field accounts for the movement. In condensed matter studies we find analogs to the Higgs field. So one can think of the Higgs field as translating the congregation of defects. As defects get together there is more mass in a given region of space. The Higgs, as is narrated in the standard model, "gives matter its mass". However, this "giving matter its mass" is a linguistic illusion, as more precisely it transcribes the movement of mass (as defects) to get closer to "the other" mass. It is not an abstract mathematical map that acts on reality, it is just that the map transcribes a reality that says: mass begets mass.

#CoS\_4\_12 On the emergence of light from matter. Let there be light:

Matter is made of defects and these defects wiggle about and emit and absorb waves or wiggles of the matrix. The wiggles are 2D transverse vibrations as we have seen in previous chapters. Matter will interact, both emitting and absorbing these waves. So matter and light are intimately linked and interactive. Light comes from electrical transitions in atoms and we detect light with electrical transitions in atoms as well.

At first a single defect can create these transverse vibrations, a group of un-ordered defects will create random vibrations. The sum of many random signals over time is zero. Chaos, pure chaos, has this signature that over time, since any signal will find it's opposite, it all sums to zero. VISUALIZE: PURE RANDOM = ZERO (in vectorial form). However, as we have seen matter begets matter and matter self arranges in structured condensates. In condensed matter the concentration of defects leads to elaborate 3D or 2D structures, think of the various shapes of crystals. At some point of condensation you have a phase transition in an order that emerges. Similarly, in our AEther, as the defects get closer and closer, they stack up. For all practical purposes you can think of stacking balls. VISUALIZE: STACKING DEFECTS. At some point the matter cannot occupy the same space (there is already a defect) just like you can stack balls but they cannot overlap, it is impossible to put all balls in one same place. We had no notion of ordered matter at first. So the "light" that is emitted, meaning the transverse vibrations of the AEther, is random. The waves emitted (for matter interacts with the AEther) are random and therefore cancel each other on average at a distance, we do not detect light. At some point of stacking the defects will self arrange in a regular 3D grid, a crystal like formation of a compact lattice of defects. The lattice may exhibit symmetries. In fact we observe the proper QCD symmetries  $SU(2) \times U(1)$  in the patterns of a field containing stacked vertexes in Helium 3 superfluids. VISUALIZE: Stacks and sheets of lined defects. VISUALIZE: The regular emitters made by the stacking vertexes; sheets and local rotational movement in Helium 3. An unorganized or random lattice would still emit in the transverse domain but the sum of these vectorial quantities sums to zero by the randomization of the position of the sources. We randomize the phase and it sums to zero over time. The average seen at a distant point of a

random cluster sums to zero. However, structures within the emitting lattice allow phase matching so that the oscillating signal does not sum to zero. We have resonances of these emissions in the field. Because the emitters have a pattern to them, the emissions also have a pattern to them. This discrete set of wave field excitations we call quantum or discrete; only coming in certain predetermined shapes. VISUALIZE: A soup of random line defects each emitting a signal in transverse domain, VISUALIZE: The sum of all defects emission zeroes out on average far away from the cluster. VISUALIZE: The line defects congregating in the soup and eventually forming a structure (the Higgs) VISUALIZE: Bits of regular lattice forming. VISUALIZE: The sum has resonances in the field.

## #C\_o\_S\_5 On wave/particle duality. Emergence of chaos from order.

12/31/1899 00:01:05 Rev 23/08/2020

#CoS\_5\_0 A brief recap: unification without Quantum:

We have seen that the fabric of space is made of a magical material that sometimes behaves like an elastic solid and sometimes behaves like a fluid. A description of the fluid nature of the media, gives us Electro-Magnetism (EM) while the elastic nature points us to Gravity (GR). Defects of this field are literally the matter. Matter is understood as a local compression due to a defect in the crystal. Hooke's law lets us calculate the elastic energy contained in these tiny string defects. It comes out to  $E=MC^2$  where C represents the speed of the transverse waves in the media. We identify the transverse waves to EM. The wave equations map to Maxwell. Dark Energy finds an analog in the elastic energy of the media itself, as it expands. Ordered matter becomes visible. We have seen that GR comes from the elastic longitudinal distortions of the media around said defects while EM maps to fluid transversal vertex waves in a gravity distorted media. This simplistic, indeed mechanistic and deterministic 3D model of the hybrid material, gives us a layman's classical Newtonian unification of GR and EM. A mechanistic meme can propagate via pictures as opposed to the more esoteric higher mathematics of theoretical physics. In short we can teach the children and learn as children. It is important to note that we have no QM notions so far. We will now show QM as emergent with the presence of chaos in the dynamics. We will map QM as a chaotic dynamic emerging from deterministic steps. We will now lay the ontological foundations for the QM layers.

#CoS\_5\_1 On single standing waves vs traveling waves:

VISUALIZE: A calm lake, a blobber for float fishing. It doesn't move. VISUALIZE: Dropping a stone in the lake. VISUALIZE: The impact wave propagating from the point of impact. VISUALIZE: The blobber going up and down. VISUALIZE: Travelling wave. VISUALIZE: The going up and down for a while; it's amplitude diminishing VISUALIZE: Long after the stone is dropped there remains a ghostly wave. VISUALIZE: The standing wave. The bobber barely

moves, but it is moving. The movement is minute and very faint in amplitude but it stays put for a long time, oscillating in place. This is the standing wave

VISUALIZE: A mexican hat, a sombrero, extending from the point of impact, oscillating in place with a small amplitude. VISUALIZE: Standing wave oscillations in place.

#CoS\_5\_2 On the wake as a sum of multiple standing waves:

We will now do the same visualization but for many stones as opposed to one. VISUALIZE:

Skipping a stone on a calm lake. It skips 10 times. VISUALIZE: The waves rippling at the surface of the lake each time the stone bounces on it. VISUALIZE: 10 blobber moving up and down. VISUALIZE: 10 big travelling waves dissipating over time. VISUALIZE: 10 little standing waves, left behind where the big travelling waves went through, VISUALIZE: A wake.

The smaller waves persist in time and stand there for a while. These 10 standing waves oscillate in place, akin to the shape of a Mexican sombrero hat. They stick around for a long time even if they are faint. We call them standing waves precisely because they do not propagate away but stand in place as a reminder of the disturbance. They are a type of memory. A memory of the stone that once skipped the surface and created a disturbance. VISUALIZE: 10 points of impact where your skipping stone went VISUALIZE: The 10 standing waves all oscillating at the same time (not necessarily in phase). You don't need a magnifying glass to see them anymore. VISUALIZE: You see them sum in your head, sometimes the wave crests match and give you a constructive resonance and sometimes they anti-match, in any case they create a complex pattern.

VISUALIZE: The standing wake. This standing wake is the basis for our QM ontology

#CoS\_5\_3 On standing waves in the fabric of space; On memory:

By analogy we will assume that the movement of our defects, of matter in the fabric of space, creates a standing wake. Every movement creates a tiny wave, like a touch of the spider web, the web resonates. All movement of matter creates a wake, a signature in the fabric of space. This signature, this standing wake, remains in place for a long time. It is a memory of the fabric of space, an ontologic memory.

Almost tautologically, because of their standing nature, the standing waves act as a foam memory in the fabric of space. Something that stays behind as a reminder of the force that once disturbed the media. VISUALIZE: The wake of a boat. The standing waves in the fabric of space have a long half life, meaning they eventually dissipate but last a long time in doing so. These echoes from the past linger for a very long time. They echo the positions of matter in the past since they center to where they originated. Just like the Mexican hats in the lake materialize an echo of the dropped stone long after the skipping itself vanished. The AEther contains a written memory of the past in the form of these standing waves.

#CoS\_5\_4 On Akashic records:

VISUALIZE: The Akasha. We will take a brief detour through mysticism at this stage. Mysticism has long stated the existence of the fabric of space. It has also assigned notions of "a book" that keeps a memory of past occurrences. This notion of "Akashic" records is but one representation of the same concept: that everywhere in space there are these standing waves, acting as



memories of the past that stand about. Most ritual and establishment of trance centers around the hypothesis that the brain can couple to this memory storage in the fabric of space. Trance is a specific silencing of the conscious brain, which itself is electrically noisy and thus Aetherically noisy. The subconscious brain can then couple and detect these waves, both in read and write mode. The brain is seen as a read and write device to the memory of the fabric of space. The fabric of space is seen as its database.

#### #CoS\_5\_5 On standing wake guiding matter:

These standing wakes exert a (tiny) force on matter. This (tiny) force is enough to move the particles ever so slightly. We will now do the walker visualization. VISUALIZE: A droplet bouncing on a soapy water surface. It moves. VISUALIZE: The droplet creates standing waves as it bounces. VISUALIZE: The sum of waves it creates over time, it is the snapshot: the standing wake. VISUALIZE: The particle bouncing on this standing wake. VISUALIZE: The movement and acceleration of the droplet that results from bouncing on the standing wake. VISUALIZE: The dynamic of particle movement and the standing wake it creates. We call this dual system “a walker”. The dynamics of the walker results from the force created by the past waves on the present particle. The past guides the future. The droplet accelerates under the influence of its own past path. Only the path exists and the future path depends on the past path. The acceleration of the particle results from bouncing onto the sum of the waves it created in the past. We have a surfer surfing its own self-generated waves. The surfer surfs its own standing wake.

#### #CoS\_5\_6 On wave particle duality:

Nature, when observed on small scales, exhibits a dual behavior: wave and particle. Classic quantum mechanics calls this “wave particle duality”. Sometimes it behaves like particles and sometimes it behaves like waves. The Walkers offer a strict visual and materialistic representation of wave-particle duality. Here you can see we have a particle and its adjoined standing wake. Pay (linguistic) attention to the fact that we are not talking about traveling waves or even just a single standing wave, but STANDING WAKE (as the sum of many such single standing waves). Wave particle duality should strictly be called “Wake-Particle Duality”. We have a particle and its wake, both at the same time. This strict(er) interpretation of QM, the physical association of a material particle and its material standing wake, will give us emergent chaos in the coupled dynamics.

#### #CoS\_5\_7 On the emergence of chaos in wake-particle dynamics:

The particle bounces on the surface and it creates a standing wake which in turn drives its movement. This feedback loop is non-linear and creates chaotic dynamics. Chaotic dynamics is a recent domain of physics, dealing with nonlinear systems and feedback loops. A tiny initial difference (a butterfly effect) leads to vastly different outcomes. This dynamical system, the association of the particle and its wake eventually develops chaotic outcomes. We can predict short term what happens to the dynamics, but predicting long term is impossible for these feedback loops lead to chaotic dynamics and thus randomize the path. This is true of quantum

mechanics, of biology, of weather, of finance, of psychology, and possibly of the fate of the universe itself. As above so below.

#### #CoS\_5\_8 SURFERS (3D) vs Walkers (2D):

The 3D point is a little technical but worth mentioning. The analogy of the Walkers is where we see them 'bounce' on the surface. This is a 2D representation. Each bounce creates a wave. This is a 'discrete' phenomena as opposed to 'continuous'. In the case of our string defects in the fabric of space, the media vibrates in 3D all around them. So we sum an infinite number of waves, as opposed to finite steps as in the case of the skipping stone. The wake results from a continuous sum of waves as opposed to discrete bouncing locations. We call the continuous phenomena of surfing in 3D, which requires mathematical integration (continuous sum), a surfer. The surfers surf in their own wake. This is the same concept of a particle creating its wake and the wake guiding the future of the particle in a self-interaction loop.

#### #CoS\_5\_9 Intermittence in chaotic systems:

One property of chaotic systems has to do with attractors and intermittence between unstable orbits. The chaos we are talking about here, that of sensibility to initial conditions, means that the system does not reach equilibrium, but seems to oscillate between several shadow equilibrium without ever settling for one. The mathematical word to describe these is "shadowing". The system changes shape, it changes state. It intermits and shapeshifts between states. This intermittence is chaotic, meaning that you cannot predict with certainty which state the system will be in at a point of time, for it continuously changes, we call it shadowing of orbits. VISUALIZE: Lorentz attractor, will have 2 different stable states (orbits around the attractors) but it will change which one over time and will do so seemingly chaotically.

#### #CoS\_5\_10 Superposition in Quantum Mechanics:

In QM, the particle exists in several states at once. We call this "superposition". Now, superposition is of a rather magical nature for we assume the states exist all at once. What we have seen above is that the system does indeed change orbits or path, but does so intermittently. The interpretation that things exist in several states at once is what leads us to philosophical paradoxes such as the Schrodinger cat. How can the cat exist dead and alive at the same time. It doesn't mean anything really. This paradox lies (literally) in a false category: we apply the notion of instant superposition (at the same time) to an object that is truly shape shifting intermittently and as such the appearance of paradox arises from our misapplication. Intermittence as representing microscopic reality, specifically if you intermit very rapidly, does away with this false-category paradox. The chaotic picture shows these dual systems intermittent. The particles change orbits over time, they change 'state' and keep on changing state. They are shape shifters. In this ontology, that of deterministic chaos, there is no superposition, just intermittence between orbits or 'states'.

A system oscillates between the states with a certain amount of time spent in each (the time it spends shadowing each orbit). In the case of the cat one should add that we cannot intermit between states 'dead' and 'alive' states. Until we master some serious magic, that of coming

back from the dead, death and life are not reversible. Once a cat dies it stays dead, or moves on to one of its 9 lives as it were. And no 'intermittence' can undo that fact. Intermittence assumes a reversible phenomena.

#CoS\_5\_11 On time averages as probabilities of quantum mechanics:

Observe these shape-shifting objects at a given moment. They will be in a particular state. Let the system evolve, observe it again, it may be in the same state or another state, notice which state. Do this enough times and count each state and how many times you have seen it. The shape of the chaotic orbit changes but seems to repeat the same set of shapes and spends a certain amount of time in each. With this mental picture we can fully revisit the QM interpretation of superposition. The probabilities simply represent the normalized ratio of time spent in each of our orbits.

#CoS\_5\_12 QM formalism of QM as time probabilities on stable orbits:

These time probabilities provide the analog of the weights of QM. The periodic orbits provide the vectorial basis (called Hilbert spaces) on which we represent each actual orbit. We can decompose the orbits by describing how much time the particle spends shadowing each periodic orbit. If one computes the times, one can arrive at the probability one would observe the particle in a particular state. These amount to transition probabilities. It provides a visualization of the Hilbert vectorial space formalism. The paradoxes of superposition may be an abuse of language, a linguistic trick, or more simply just a mis-category (the wrong mental map and interpretation of formalism). The path remains deterministic step by step, we have one path, but the orbit changes over time. The full path is a chaotic system over time. This is how determinism gives us chaos.

#CoS\_5\_13 On Schrodinger's cat (part 1):

Let's revisit the Schrodinger cat in this picture. The idea that a cat would be dead and alive has confused generations of students of Quantum Mechanics. Saying that the cat is dead and alive is absurd. A proof by the absurd would be enough to stress this mis-category and yet we still talk about superposition as a macro reality and pop news still have headlines that perpetuate this linguistic absurdity. In the chaotic ontology, nothing exists in 2 states at the same time, but might be in any 2 states in the future, we know for sure it is one, we just don't know which one. You are dead or alive, not both at the same time. Furthermore the intermittence supposes we can transition between states at will but clearly the state of being dead represents a dead-end, with a pun intended. There, the paradox is solved, good news and bad news: the cat always dies. Long live/die Schodinger's cat.

#CoS\_5\_14 On the quantization of walker orbits:

The walker ontology gives a very striking visual explanation for quantization of orbits.

VISUALIZE: Two Walkers, one orbiting the other. VISUALIZE: The orbits have discrete values, not a continuum but multiples of the fundamental wavelength of the walker phenomena.

VISUALIZE: The orbiting walker changes orbit chaotically (intermits between orbits) sometimes you have one circle with a radius, sometimes you have another bigger circle with a bigger

radius. VISUALIZE: It is analogous to what happens in the hydrogen atom: sometimes you are in the S1 orbit and you hop to S2 if you get “excited” (bigger radius). This provides an analog to the atomic transitions of electrons between valid orbits. The fact that the orbits are “quantized” is hypothesized via the formation of standing waves in the atomic structure. VISUALIZE: A piano string oscillates with multiples of standing waves in the length of the string. Not every frequency is emitted by the string, but just a multiple of a fundamental standing wave (N nodes)

#CoS\_5\_15 On deterministic vs non-deterministic variables:

The emergence of chaotic or non-deterministic variables from the purely deterministic classical equations of physics is a central puzzle of the theories of everything. How does one reconcile the deterministic nature of classical physics with the fundamentally stochastic nature of quantum observables? The ‘classical’ view of physics involves variables that are well determined at each point in time. Give us a starting point and we will unfold the (deterministic) equations of motion and we can predict where it will be in the future. Of course it doesn’t take much observational power to see that pretty much NOTHING in nature behaves this way and that chaos, or at least ‘stochastic’ (random) behavior, seems to rule the day. In classical physics we can define precisely a position and velocity for particles over time. We just need to run the math. Those are deterministic variables and they map one on one in time, meaning one value now gives us a single value in the future. We call these “single valued” maps. However chaotic variables can end up in a large set of possible variables, you need statistics to describe them: “In the future, you may be here or you may be there”. A value now, for all practical purposes, leads to a non-deterministic set of possible values for the variables in the future. The maps become multi-valued. We lose 1-1 mapping and the mapping becomes 1-N, N counting the number of future possibles (possibly infinitely continuous). In the example of the orbiting Walkers we have seen a quantized intermittence (orbit S1 or orbit S2), not a continuum of orbits. These two notions (quantization and intermittence) are clearly separated in our visual ontology.

#CoS\_5\_16 On read short and enchant long:

We cannot predict with certainty what the future looks like. We cannot deterministically integrate the system with infinite precision into the future. Our systems are chaotic in this sense. After some time the path remains dark and unknown. We can talk about possible scenarios and their respective probabilities as outcomes of the dynamics. The mystery of non-determinism in QM finds a justification in the chaotic dynamics that underlie a wake-particle system. For a system in a well determined current position one cannot compute with certainty its future position with arbitrary precision into the future. The illumination applies to the weather, biological systems, mass psychology and financial models. We can predict in the near future but only with decreasing accuracy, until our models spit out random data. Read short and Enchant long.

## #C\_o\_S\_6 On the ontology of Quantum, observation, entanglement, field causality.

Rev 23/08/2020

### #CoS\_6\_0 On a new Wake Particle Ontology:

We have introduced the emergence of chaos from order. We have seen how non-determinism emerges from determinism and helped solve one of the central puzzles of modern physics: or how to reconcile deterministic classical physics with non-deterministic, or stochastic, quantum mechanics. The mathematical trick we use is that of non-linear dynamics and feedback loops which render the system extremely sensible to initial conditions. This makes any long term prediction impossible. We lose determinism. From order comes a second chaos, different from the primordial chaos. This chaos exists within the order of classical mechanics and says that the path will always develop in unpredictable (chaotic) ways, this is a “soft chaos” which is mirrored in the chaos of every day system. Think of the stock market, psychology, the weather, biology. This “soft chaos” makes predictions over the long term moot. Only the short term exists... the path is everything and one should read short and enchant long, for the path unfolds as it is created, as we walk it. The notion that reality is created as we experience it finds a justification in this primordial construct. The ontology of the wake and the particle interaction at the quantum layers, which is a non-linear feedback loop, is what gives rise to this emergent chaos. For those paying attention to the epistemology of this system, we are dealing with the emergence of non-determinism, in stark contrast with other ontologies which hypothesize the ‘quantum ochaos’ as a fundamental and axiomatic reality. We will further explore some of the more advanced features of Quantum Mechanics in this framework and create bridges to the existing observed facts from our theoretical and mystical ontology.

### #CoS\_6\_1 On free will:

As a philosophical aside, note that this philosophy allows free will. Free will remains a central puzzle of philosophy and is here understood as the sentient walking of the path. The brain models the future path (read short) and allows for willful change on the path according to vision (enchant long).

### #CoS\_6\_2 On Quantization of light:

It is still hotly debated whether photons, as an ontology, are needed. Most modern text-books do not appeal to the quantum nature of light, but rather deal with a classical electromagnetic field and a quantized interaction of light with atoms. Atoms, or rather atomic orbits of electrons, are quantized; they come in discrete non-continuous packets. It is the interaction of light and atoms which is quantized because the orbits of the electrons are themselves quantized. In short, we talk of photons as “particles” and discrete transitions, but modern formalism actually uses continuous field mathematics. This is the state of the art, almost a hush-hush point which

is made in most advanced textbooks, that classical 20th century QM physics tells one story (of photons) but that we use a different narrative for technical mathematics and formalism in advanced laser physics. Over the history of science, the nature of light has played a central role in breakthroughs. It has in turn been interpreted as “particles” (antiquity), then “waves” (renaissance, industrial revolution), then “particles” again during the 20th century (birth of quantum, atom bomb) and now waves again. At the turn of the 21st, the wave nature of light dominates our formalisms in lasers and fibers. The mathematics of esoteric fiber waveguides or the paradoxes of quantum entanglement emphasizes the wave field nature of light and in fact, as we will see, it is the particulate interpretation that leads us to nonsensical narratives. We will be pushing for a mis-category for some of those paradoxes (where we apply the wrong ontology to the facts and read absurdities in the data).

#CoS\_6\_3 On quantization of light-atomic interactions (electron orbits):

One of the starting points of quantum mechanics was the photo-electric effect, or the observation of light in “little packets of detection”. As a point of principle, all our detection of light is via atomic and electronic interaction. Whether it be our eyes, our photo-electric films, or our modern avalanche single photon photo-detectors, our ‘detection’ of light is always via interaction of said light with atoms. More specifically we detect “light” when an electron changes orbit and we see that in one way or the other. So there is always the possibility, which is growing in probability lately, that while we detect light in “quantized” quantities (discrete values and packets) that is more a function of atomic detection than it is a function of light itself. In other words, the quantization is an artefact of detection. Let’s meditate on single photon detectors with state of the art avalanche photodetectors in condensed matter detectors. A single photon detector works this way: a solid state device is sensitive enough to detect a single atomic transition. A “photon” hits the electron, the electron transitions and triggers other electrons to transition via amplification. The result is an ‘avalanche’ of electrons. These are called Avalanche Photo Detectors or APDs. We detect the tiny electrical signal, like in a geiger counter and call the ‘tick tick’ signal A PHOTON EVENT. VISUALIZE: A slope of snow, which is wet and about to trigger an avalanche VISUALIZE: The sun heating the surface bit by bit, it takes a lot of time for the avalanche to build VISUALIZE: The avalanche itself as a singular (catastrophic) event. VISUALIZE: THE AVALANCHE-TON hit the slope and triggered the event. Of course seen in this linguistic trap, we talk about the “avalancheton” as the “particle” that hit the slope of the mountain and triggered the avalanche itself, and while this is obviously a causal absurdity bordering on humorously exposing the flaws of our reasoning, it may be akin to what is going on in APD for single photons. What we call “single photons” are in fact “Threshold single electronic transitions” and our amplified solid state media is sensitive enough that a single electron is enough to trigger a cascade of electron transitions with the amplification over the threshold. The step we take to assigning this event to a single photon, is in fact a linguistic trap. We assign ontological reality to the quantized light, when we could explain it all with quantized transition and a continuous light. In short: the avalanche is a singular event (at once) but the lead up and heating of the surface is ignored and we make the (false) conclusion that the avalanche, which is a singular event (which we detect) was due to a singular particle or single event that triggered

it all. The quantization of light, may be an artefact of our measures and observation, due to the quantized nature of the measurement apparatus (atoms and electronic orbits).

#### #CoS\_6\_4 On the role of observation and measure in QM:

The measurement problem has been central to the development of quantum mechanics. We have just seen that it is logically consistent, and in fact what dominates modern textbooks, to talk about the quantization of light-matter interaction without assigning philosophical reality to the quantization of light itself. These are narrative maps, that while consistent, actually betray fundamentally different realities. Even the original experiment of Stern and Gerlach, sheds some interesting light. The measure is a dynamic process. In the original quantum experiments one would apply a very strong signal (the magnetic field) and observe quantized trajectories for the electron. Either an up or down outcome on a screen and always the same spot. We advance the notion that the quantized outcome is a dynamic result of the measure; in short the measure itself is what forces the binary outcome. The binary outcome is not an intrinsic property of matter, but rather the dynamic (extrinsic) result of measure. Let's consider as an analogy the process of representative democracy and the two party system. Due to technological constraints, for most of the 19th and 20th century we have had representative democracy with a left-right political divide. The opinions may be very varied in the field. In fact that is certainly the case for the free thinking men and women, opinions vary wildly. However to legislate we boil down the choices to two, instead of plural thinking. We force the outcome to fit in a yay/nay box, almost tautologically forcing a binary outcome. It is most certainly the case that the spectrum of opinion is way more varied than the binary thing we measure but yet the system we use to vote and legislate, the two party system, forces the outcome into a duality. It is the act of voting itself that gives us the illusion of a left/right divide (quantized choice) when in fact the ontological reality of our political psychology may be a lot more plural than the political system allows for and measures. The same thing may be going on at the "spin" level. We "measure the spin" with a highly disruptive B field (magnetic field) and force the electrons to make a dual choice, up or down. This dynamic process comes out with 50/50 probability and we talk about intrinsic spin. This intrinsic spin may in fact be an abuse of language, or an abuse of ontology, spin may be the result of an extrinsic measure of something we do not yet understand fully. Do not mistake the (observed) map and the territory. The notion of spin is really the result of a highly complicated and disruptive interaction between an atomic system and a strong magnetic field. The result of observation is, simply put, the result of the act of observation. While this may seem confusing and almost tautological, it is rather straightforward and was one of the early debates in quantum mechanics (the role of the measure). VISUALIZE: The act of voting in a bipartisan political system (the map) obfuscates the plural reality of opinions (the territory). VISUALIZE: The measure creates the outcome, the measure creates the measure, observing reality creates the reality we observe VISUALIZE: The systems before and after the measures are fundamentally different.

#### #CoS\_6\_5 On intrinsic elements of reality:

Central to the early development of quantum mechanics was this debate around interference of the measure (the act of measuring itself, creating the quantized outcomes). The forefathers

debated whether observing this quantized 'spin' meant there was an intrinsic spin prior to the measure itself. This led to the paradoxes that moving the Stern Gerlach axis would also give us different quantized outcomes (spin left/right, spin up/down, spin front/back) and reconciling the 3 intrinsic spins is what led to the complicated spin algebra. The argument simply stated, that as a matter of fact, there was NO intrinsic spin but that there were things inside the atom and electrons that would react to a strong magnetic field. Far from elements of reality intrinsic to the atoms and electrons, it was the result of a dynamic measure that led to the quantized outcomes. We mistake the result of interacting with the system for what existed prior to the interaction, believing somewhat naively, that our act of measuring does not interact with the system or force the system to choose a specific outcome. In this picture there are no "intrinsic elements of reality" there are just results of measures which fundamentally interact with the system being measured.

#### #CoS\_6\_6 On decoherence:

In QM, the act of observation removes the QM. The system experiences a so-called "wave collapse" in what we call decoherence. This decoherence is nearly instantaneous and more importantly 'delocalized' or 'global' leading to non-local paradoxes we will explore. In the new ontology we have a precise definition for this decoherence: we can picture it as the loss of the particle wave coupling and its nonlinear dynamics. If the system is left to its own devices, then the contribution of the self wake to the dynamic dominates numerically and will give us a chaotic dynamic. That chaotic dynamic in turn gives rise to non-deterministic outcomes and QM enters the picture with its probabilistic predictions. The loss of determinism comes directly from the existence of the wave-particle loop coupling, lose the coupling and you lose chaos and you recover determinism. QM doesn't like to be observed. Once observed the state remains set. The measurement problem of QM finds a simple explanation in the condensed matter narrative.

#### #CoS\_6\_7 On Entanglement:

One of the central puzzles of modern (early 21st century) physics is the nature of entanglement. Entanglement's narrative is very magical. Essentially, the popular narrative says that two particles that are separated by great distances are still connected and communicating instantly. The correlations that lead to a violation of Bell inequalities hold for distance and times that are supraluminal. It doesn't matter how far away the two particles that are entangled are, if you act on one the other immediately reacts, or so does the popular narrative go. This narrative is the stuff of magic obviously because it says that everything is connected to everything instantly. We advance that this narrative is a mis-category in the context of wave-particle duality. The naive narrative uses particulate causality. Alice influences Bob instantly and across vast distances. In the case of an Aether, the causality is field resonances influencing Alice and Bob at the same time but in different places (assuming the 'same time' means anything). The field presence is enough to influence the local statistics and Alice and Bob show correlations that should not be present in a purely random field. These are synchronicities which are driven by the Aether.



#CoS\_6\_8 Everything IS connected with everything:

This meditation is one of the central visualizations of this text. VISUALIZE: Everything around you, look at the walls and windows and objects if inside; look at the sky and nature around you if outside. VISUALIZE: The trees and the stars (which you may not see). VISUALIZE: Every single thing you see, you see because a wave (photon) reached your eye. VISUALIZE: All those waves, from stars, including 3 photons per second from dead stars, and trees and objects about you are entering your eye. All of these waves from all of these objects, from far away and close to you are entering your eye. VISUALIZE: At the point where your eye is, the waves from the objects exists VISUALIZE: Take a step forward and realize that all the objects you see (including the distant stars in the sky) are also visible at that point. VISUALIZE: Waves from all these things are reaching your eye at that point. VISUALIZE: Everything is connected to everything and everywhere. In the visual domain, everyone receives information (the photons) from everything they see, and at every point and every moment they see them. VISUALIZE: Visualization is just a tiny fraction of the frequency spectrum. The visual cannot move physically but it moves us in the brain. The brain is a map of the surrounding so we are most aware of the most faint.

This concludes our meditation. It is true, everything is connected to everything and everywhere, as the mystics have always known, this is a physical truism you can derive with the above visualizations. What is not true is that everything is connected to everything INSTANTLY. Namely the waves that travel from the dead stars to your eye, do so at the speed of light.

## #CoS\_7 On Time and SR

06/01/2016 11:45:07 Rev 23/08/2020

#CoS\_7\_0 We will explore the technical nature of time:

Time will be understood as a numbered index on the passage of events. Time will be linked to causality and entropy and as emergent in the non-reversible flow of events. We will show time flows one way, irreversibly, both physically (thermodynamics) and philosophically (contradictions) and we semi axiomatically choose for causality to stand. We will show the local nature of how time is measured, the special relativity of Einstein being a consequence of this clock rate variability. We will show that time cannot be a global construct as it flows differently in different parts of space for different moving bodies, recovering Special Relativity. We will show that future time travel is possible, past time travel a mis-category. We will deduct that future time travel exists and is a moral sin when done. Past time travel does not mean anything, and doesn't exist. We will argue for the morals of saving time as a resource.

#### #CoS\_7\_1 On time as a flow index on the flow of time:

Our notion of time derives from fundamental physics. Time acts as index marking a SEQUENCE of events. VISUALIZE: A movie and the sequence of picture frames that make it. VISUALIZE: In the flow of the movie we 'tag' each picture with an increasing number, we call these names time. We number the sequence. In this sequence of names is an implied order, that of increasing number and time. VISUALIZE: We index the flow of events, the sequence, with a number which defines time.

#### #CoS\_7\_2 On causality and one way flow, the arrow of time:

Causality states that the flow of events follows from cause to effects. In many fundamental equations of physics most notably QM, we can reverse time. So that the notion of cause and effect appears somewhat arbitrary. In practice we observe the emergence of a direction of flow and what we call the arrow of time. VISUALIZE: The shattering of glass. VISUALIZE: The breaking of an egg. These, usually violent, phenomena present an ordered sequence of events, that can only flow one way: the causal way. The reverse does not make physical sense. VISUALIZE: The reverse movie of an egg unbreaking. It will not make sense to you. You lose causality. The movie only makes sense when causality is explicitly shown. While some processes are invariant under time reversal, some others are not. Most notably processes that involve chaos cannot be rewound indefinitely.

#### #CoS\_7\_3 On entropy, causality and time:

At a certain layer of macro physics, for example, we observe irreversible phenomena, events where we cannot go back. VISUALIZE: Glass breaking or VISUALIZE: An egg crashing. These are irreversible processes and you will only observe them going one way. Entropy and the thermodynamic saying that "entropy always increases" maps to the fact that time only flows one way. There exists a link between entropy and time. Many, if not most equations of physics, remain unchanged under time reversal. This fact, on prima facie, pushes some philosophers to declare that cause and effect, the notion of causality itself, only exists in the eye of the observer. Play the movie backwards and what was the effect becomes the cause and vice-versa. The existence of non-reversible phenomena points to a single preferred causality chain that corresponds to increasing entropy. Increasing entropy and increasing time represent the same physics of chaos, that the information we have determined about a system, disappears in time. The movie does not make physical sense in reverse only in forward time. It should be noted that chaos usually creates the non-reversible phenomena, like a barrier one cannot cross.

#### #CoS\_7\_4 On reversible time and no-causality:

The increase of entropy and the increase of time represent the same insight into non-reversible physics. The emergence of unidirectional time and entropy encode one and the same knowledge of the dynamics. Time flows one way. Aside from this factual physical interpretation, linked to the existence of chaotic dynamics, we have deeper philosophical issues with the hypothetical existence of non-causal realities. You can kill yourself in your past. This statement of course means nothing, a paradox born of language and mis-categories. If one can go back in

time, then one can kill itself, and if one can kill itself in the past, we arrive at a philosophical paradox; a dead end representing in this case nothing more than abuse of language and mental categories when we talk about time as a quantity that can increase or decrease. If, just because we have a number it means it can increase or decrease, the present would then be a product of the past AND the future in an endless revision loop. Nothing would be set in stone in our universe, everything open to continuous revision. You could never be sure of a fact as a causal consequence of another fact in its past. Causality becomes this nebulous loop concept over time which includes the future. The philosophical monsters of you can kill your own mother before she gives birth to you thereby voiding your own existence, remains a philosophical mis-category in this approach. One can choose to entertain it, and some magical schools of thought indeed do. They make for good sci-fi, esoteric magic, and movie plots, but they remain nonsensical and irrational philosophical categories. We choose causality, perhaps in fine axiomatically, to reason about the universe that surrounds us. Some eschew reality entirely, we use a measure of rationality.

#### #CoS\_7\_5 On time as light based counter:

Technically speaking, how time is actually measured must obey special relativity. To the best of our understanding, which we derive from condensed matter theory, time is calculated in reference to a fundamental clock. This reference clock counts a number of fundamental transversal oscillations at each point of the material. In plain english this means that we measure time as the number of oscillations of a fundamental and generic light pendulum, linked to Electro-magnetism, as Feynman intuited. Every event is measured in how many oscillations of the reference did a certain phenomena take. The properties of this oscillation are such that it slows down as the reference moves through the media. The proper number is scaled by the geometrical Lorentz factor as shown in generalized Feynman-like treatments in condensed matter theory.

#### #CoS\_7\_6 On locality of Time measures:

We know from Special relativity and General Relativity that the flow of time changes from point to point depending on velocity of observers and gravitic field. Time is not a global construct, there is no global time because the rate at which time flows depends on what point in space you occupy and your movement through the AEther. The reason for this in the condensed matter ontology stems from the fact that we base our counting of oscillations on a local physical reference pendulum. The properties of these oscillations themselves depend on the local conditions of the fabric of space, specifically its density and also the local movements of matter doing the observation. So, deductively, what we measure as time, the counting of number of oscillations in a local co-moving pendulum, depends on the local properties of matter, including its movement through the AEther and its state of density compression by gravity. Time, measured locally, in oscillations of a fundamental light pendulum clock, depends on the conditions at every point of the path. So how clocks measure time depends on the path. A clock in one part of the universe will flow differently from a clock in another part of the universe. Time is a local construct to your thread, you count your own time, not a global construct of the universe.

#CoS\_7\_7 On time as local construct: Time dilation, SR:

We know what affects the frequency of these oscillations: the velocity at which the clock is moving and/or the density field (gravitic field) in which it moves. We will focus for a second on the time part of SR (velocity). In condensed matter treatments we have a reference vacuum. Movement through this AEther accounts, mathematically and precisely, for the Lorentz time dilation, as opposed to the Lorentz space contraction. So we recover the SR Lorentz time dilation, in a Feynman like treatment. VISUALIZE: A pendulum oscillating between two mirrors. VISUALIZE: The mirrors moving together and the path of oscillation expanding by the correct geometrical zig-zag factor.

#CoS\_7\_8 On time as local construct: Space contraction, SR:

We know from condensed matter that the standing waves of matter will contract by the proper Lorentz factor in the direction of propagation of the emitter of said standing waves. This property of standing waves, says that a way comoving standing wave will contract by the correct Lorentz contraction factor in the direction of movement. We have seen in the QM layers that such a contraction of the standing waves leads to a contraction of the clusters of matter by the same factor. In other words, matter physically contracts by the physical gamma Lorentz factor when moving through the AEther.

#CoS\_7\_9 On emergence of SR, epistemological status of SR:

When we combine, both the slowing down of the oscillations with the contraction of the physical matter we arrive at the invariance of the speed of light. In fact we can view the Minkowskian metric as the very definition of the notion of time in this framework. In special relativity (SR) we start by axiomatically postulating the invariance of the speed of light and deriving the contraction of space and dilation of time with their respective gamma Lorentz factor. We observe this invariance of the speed of light and this dilation of time. The axiomatic-observed status of SR can upgrade to emergent-observed, ironically by re-instating an AEther, something it rejected at first. Matters of taste matter.

#CoS\_7\_10 Time dilation in gravity. GR:

From the same condensed matter treatment we know that a local space dilation (gravity) will result in a slower oscillation of movement through the media. Local gravity, understood as the varying elastic density of the AEther impacts how time flows. Gravity will slow, or accelerate, the rate at which the generic base pendulum oscillates depending on the density of the AEther. The stronger the gradient of density of the vacuum of space (the stronger the gravity), the slower the clock.

#CoS\_7\_11 On no Global Time, no time holonomy:

As a result, Holonomy, etymologically whole-name, or the capacity to give global names, is lost for the construct of time here. We do not have a notion of global time covering the universe as time only makes sense measured locally, as a property of matter by a matter observer whose reference clock and reference length will vary with local conditions, meaning from point to point.

This rather technical notion of different sums over different path (path integrals) says that you can only talk about time elapsed for you along your path, taking into account your velocity (SR) through AEther and the density of said AEther (GR) at every point you visit. Do not talk of a global time, for that represents an abuse of language. It exists in language, but not in observed reality. Every observer will see their clock oscillate differently in different points of space. In other words, two observers starting at point A and following 2 different paths to point B, will meet at point B with different clock sums. The different particles may encounter different velocities and SR factors and AEther densities with GR factors.

#CoS\_7\_12 Observation of no time holonomy, epistemology:

These ideas about time belong to the category of observed philosophies. Epistemologically speaking we know, for we observe it, that time does not exist globally and the speed of light remains constant. Every second of every day, GPS clocks correct for their movement through the gravitic field of Earth as encoded in GR. It is of note, that SR is not used in these applications. We observe this path dependence in atomic clocks flying aboard planes. Experimental observation suffices for physics and technology to advance. Understanding the phenomenon is second to harnessing it. Technical knowledge of QM establishes the observations as axioms, as in the case of particle physics with the symmetries of QCD, or the postulate invariance of the speed of light in SR. These symmetries are axiomatically inserted in the system for they correctly predict what we observe. Philosophically speaking the status of emergent-observed remains more satisfying for we then work with deeper axioms and usually have a visualization for the emergence.

#CoS\_7\_13 You can travel to the future, no twin paradox:

As a result, and as we know since SR and GR, you can slow down your clock. Either move close to the speed of light or through the gravity by standing in a strong gravitational field made manifest by an expansion of the background in condensed matter. Each one of these phenomena will slow your local clock down and thus slow your passage of time. You, the subjective observer, however, will not notice anything as your local reference is your local reference. Only when you come in contact with another clock and you compare the readings on the clocks you will notice that the count of the number of oscillations differs when you meet again, assuming you started at the same place at time zero. In other words, if you have a twin, you can slow your clock down and age more slowly than your twin. You, yourself, can spend the next 10 years of your life travelling at close to the speed of light and come back to Earth when 10,000 years have unfolded on Earth. You will not see the difference locally and still will age at the same rate in your local frame. You will still age 10 years but those you left behind with faster clocks will be 10,000 years gone when you get back. Yes, in that sense, you can travel to the future, or more precisely, you can travel to someone else's future. You cannot travel to your own future, for that doesn't mean anything either, you will not encounter yourself there. You only exist in the present and just have to walk the path. You can travel to someone else's future.

#CoS\_7\_14 On the impossibility of time travel to the past:

It is possible to speed up and slow down one's clock in reference to another clock that would remain the same. We, however, cannot change the direction of the flow. Time always increases, just as entropy always increases. In fact the two notions say the same thing. We can change the rate at which time flows but not its direction. Time always flows positively, like entropy, even if at different rates. Travelling to your past remains impossible. What has happened has happened, you can't undo it. You can observe the past, in fact you always do since any signal takes time to reach you but you can't change the past itself. You can change the signature of the past, but the past remains done and gone. More than technical, since the mathematics do not say anything, you cannot go back in time and kill yourself, it just doesn't mean anything. Philosophical monsters and good movie plots aside, we cannot address reality with reason and physics without causality. You can travel to someone else's future and come back to Earth in 1M years to see the progress but you cannot go back and change your own past or anyone else's for that matter. It would violate causality as 'this follows that, as cause and effect, in time'. What has happened has happened.

#CoS\_7\_15 On the sinful nature of future time travel:

From the point of view of the #CoS, time travel into the future, while technically possible, constitutes a sin. A waste of time, literally. The first moral imperative for mankind is to find enough technology to escape the explosion of our sun into a red-giant, when it runs out of Hydrogen as QM dictates. Ideally we would find the technology to propel the Earth itself as opposed to UFO technology or even better, we would need technology to move the SUN itself and replenish it. Interstellar gas stations await us. To find this technology we need to maximize our computational time. As an individual one could skip duty and come back in a million years when mankind has figured out all these issues, hopefully. But what a selfish thing to do. We will have not contributed to said development.

#CoS\_7\_16 On the virtue of speeding one's clock:

Speeding up one's clock will mean increasing contributions to the development of our technology. We need to make the most of the resources, that includes time. For the time awarded to us remains a finite resource. We can slow the external time by going overclock in our time, but we can't reverse time. The right thing to do with your time is to accelerate it, spend years nested in someone else's second, give them the results of your computations. We have to find the technology to travel to the stars with our planet in tow. We cannot waste our physical resources and that includes time. We have a finite amount of time before the Sun turns into a red-giant. Let's make the most of our time.

## #CoS\_8: A quasi-formal derivation of "The Speed of Light".

Rev 23/08/2020

#CoS\_8\_0 On the epistemology of the Speed of Light:

Modern physics axiomatizes the invariance of the speed of light. Orthodox approaches hypothesize the invariance of  $C$  (Einstein SR) and derive deductive properties including  $E=MC^2$ . This is epistemologically sound for we observe this invariance experimentally in the Michelson and Morley class of experiments. What follows is a causally reversed deductive path way. We hypothesize an AEther and derive rigorously the invariance of  $C$  in a broad sweeping theorem. It is also a complete path working based on the framework exposed thus far, it is a rigorous recap (more focused on the hard science) and may be skipped. For those mathematically inclined and trained this is a complete logical outline of the theorem: "The speed of light is invariant in an AEther".

#### #CoS\_8\_1 On fundamental ontologies (Axiomatic):

The word "fundamental" qualifies that ontology which we have not yet understood or derived in terms of another more fundamental ontology. For example, in the recursive ontology of "turtles all the way down", the label "fundamental" applies to whichever turtle we cannot yet experimentally peer beyond. The moment we do peer beyond that turtle, it loses its fundamental status, and emerges from a deeper, more fundamental turtle.

#### #CoS\_8\_2 On emergent vs fundamental:

Special Relativity (SR) itself remains axiomatic in modern physics. We postulate the invariance of the speed of light, as observed in Michelson-Morley type experiments, and derive space contraction and time dilation as logical consequences. In this essay we thoughtfully ruminate through a reverse pathwork and will prove emergence of SR. We will axiomatize an AEther and derive as logical an emergent invariance of the speed of light, doing away with it's counter-intuitiveness.

#### #CoS\_8\_3 On an axiomatic AEther, a.k.a "The Vacuum":

The fabric of space sometimes behaves like a solid and sometimes behaves like a liquid. An unknown material worthy of the gods. Special Relativity did away with the luminiferous AEther altogether while General Relativity reinstated something akin to it and just as mysterious in what Einstein somewhat anti-nomically called the elastic metric of space vacuum. To that end, we consider a speculative type of material: a compressible superfluid of sorts, like a very particular cosmic liquid crystal. While the narrative leverages condensed matter physics, the nature of this material remains magical (hypothetical and fundamental).

#### #CoS\_8\_3 On condensed matter physics:

In the second half of the 20th century condensed matter research flourished experimentally and mathematically. Unlike pure mathematical physics it lets actual experiments guide the models. Today CERN physicists peering beyond the standard model use numerical software results from lattice QCD implying many properties of this "nothing", otherwise called "the vacuum". We call the fabric of space "the vacuum", possibly in jest or just to confuse the masses. The vacuum teems with life, figuratively and perhaps even literally if you believe some mystical accounts. Tesla, foreshadowing the more modern condensed matter treatments introduced this ontology of a visco-elastic material. Cement belongs to this category, crystals as well, although both

evolve with different timescales. Sometimes they behave like fluids and sometimes they behave like solids.

#CoS\_8\_4 On Planck level ontologies: axiomatic by necessity:

We just postulated this AEther into existence. We say it behaves like a compressible fluid in 3D at the Planck level via mechanisms; we do not elucidate further. We consider it our starting turtle. In effect, we start from axiomatic phenomenology. The ontology we use derives from condensed matter and takes place in the familiar visual 3D space. Other physical theories choose other starting points. For example, String theorists prefer to work with tiny strings existing in 9-11 dimensions of space, while Loop theorists prefer to work with tiny loops existing in 3 dimensions of space and Turtle theorists prefer to work with tiny turtles and still hold sway in many esoteric circles.

#CoS\_8\_3 On a force in the AEther:

This narrative focuses on “the force” as imparted by the vacuum on particles. A very Newtonian approach instead of the more formal Lagrangian frameworks. We could call it “The Star Wars Ontology”. Today when we observe electron diffraction through physical slits, without any physical contact between the electrons of the beam and the electrons of the nano-fabricated walls, we observe interference patterns and, if we believe in any notion of trajectory for the electrons, then the Newtonian narrative will ask “how does momentum exchange happen exactly?”. Non-destructive QM measures, the weak measures, suggest the existence of some sort of trajectories at the quantum layer both for electrons and photons in opposition to historical QM which negates the existence of trajectories for particles. Then what medium of exchange would actually allow the electrons to change their trajectories in the force picture? Similarly, in the classical realm without QM, when the Newtonian apple falls down to Earth, by what mechanism does momentum actually increase?

#CoS\_8\_5 On visualization in 3D ontologies:

We emerge at a non-trivial cosmogony, up to some quantum mechanical notions and SR, in three dimensions of space. We can also visualize advanced physics by imagery alone alongside non-trivial mathematics. The formalism of condensed matter itself requires the mathematics of differential geometry, tensor algebra, path integrals and group symmetries. GR and QM formalisms require the same mathematics, perhaps a coincidence or encouraging sign. Also we can now visualize a 4th rank tensor as stiffness. We may even communicate it visually with children even if the final rigorous treatment requires years of training in the mathematical dark arts.

#CoS\_8\_6 On the Big Bang and dark energy:

In the beginning of our cosmogony, we hypothesize a big bang. We visualize it as an elastic media completely compressed. This compression means elastic energy stored. Just like a compressed spring. Set free, the compressed spring-universe and its springs explode into 3 dimensions of space. We call this the big-bang. This original expansion of the stage itself is driven by elastic energy as potential energy. We call the potential elastic energy, dark energy,



and it drives the expansion of the AEther itself. Certain numerical ranges give us proper observed profiles of cosmological expansion, one with acceleration first, then a dip in acceleration, and finally reacceleration. During the expansion phase, the elastic potential energy appears as a kind of 'repulsive gravity' with things flying apart at an accelerating rate.

#CoS\_8\_7 On the speed of expansion of the universe itself:

While movements inside the AEther will appear relativistic (as we will derive), the movement of the AEther itself does not need to obey the same limit. Nor does it really mean anything to talk about the speed of light for the universe itself. Speed requires both the notions of distance and time metrics, both of which will appear as local constructs inside the AEther stage itself. We know, from observation, that the universe still expands at an accelerating rate. This means we are not 'half way' in terms of the spring analogy. The rest of the way, the universe will appear to have a slowing down rate of expansion. The compressible fluid AEther ontology does recover the proper profiles of observed cosmic history under certain numerical ranges.

#CoS\_8\_8 On fundamental chaos and chaotic density waves:

We can visualize the fabric of space expanding violently and the AEther hosts these density waves. These scalar density waves are random at the birth of the universe. There are no forms yet, no matter, no light, just primordial chaos.

#CoS\_8\_9 On first order out of chaos; Emergence of quantum foam:

We can visualize the patterns of light at the bottom of the pool. We call these caustics created by natural focusing. The focusing happens because of the chaotic surface of the water. The squiggly lines we see at the bottom of the pool indicate the existence of 2D surfaces of light inside the volume of the pool. The collection of 2D surfaces results in a 3D bubble structure. Transposed to our medium, we call it the quantum foam. Matter as density caustics; Scalar density waves in a media will get focused and form these density folds in the fabric of space. We assume axiomatically that higher density caustics will cause dislocations in the fabric of space. We have no way of justifying this peculiar tearing but by analogy with known elastic plasticity.

#CoS\_8\_10 On Catastrophe theory and the birth of shapes:

René Thom studied these field foldings, and called them catastrophes [6-Thom]. Thom studied the natural shapes these catastrophes would take. It turns out they only come in certain shapes and were given pretty names such as the cusp, the fold and the swallowtail. Philosophically speaking, they represent a first emergence of order out of primordial chaos, and as such warrant study. No matter what chaos of density waves you have in the AEther, you will always have these shapes emerging in any scalar 3D field. In the parlance of Rene Thom and Catastrophe Theory these 'folding' are generic and structurally stable, meaning that they will always appear and they will always take the same set of forms. Out of primitive chaos comes a first order. String tears as primordial matter.

#CoS\_8\_11 On a link to string theory and loop theory in 3D:

The first form in 3D has the body of a butterfly: a string or cusp line at the intersection of the two planes or folds. A double compression results at the intersection of the planes. In our narrative, string tears with stress will form as primordial matter. We see matter as tiny string defects in the fabric of space establishing a link with string theory (but we operate in 3D and not 9 or 11). The string defects form closed loops to minimize energy.

#CoS\_8\_12 On electromagnetism as 2D vibrations in the fabric of space:

In the condensed matter narrative, the fabric of space moves and jiggles in 3D, the elastic part vs the fluid part. Like a crystal lattice you can bang and jiggle about without rearrangement. A twist in the fabric, like a corkscrew shape, gives us local rotations, this vectorial displacement maps to the EM vector potential in some condensed matter treatments, and in some others we use the velocity decomposition [4-Gremaud] to give us the analogs. The mathematical description of these movements give exact analogs to Maxwell's equations, either stressing the genericity of these mathematical forms (rotational operators) and/or the relevance of the respective ontologies to actual physics. The transverse waves obey Maxwell's equations and thus we identify the waves with light and the velocity of these transverse waves with the speed of light itself.

#CoS\_8\_13 On mass vs mass-less and the speed of light:

We observe that massless particles like photons always travel at the speed of light, no matter what their energy. They can't slow down actually, at least in a vacuum. However, we also observe that as soon as something has mass however it cannot travel at the speed of light, no matter how much energy you put into it. This indicates a radically different nature for matter and photons. In our narrative, we identified matter with the singularities of the AEther. Defects move in a crystal, implying a reconfiguration of the crystal lattice itself, and as such traveling slower than waves through it. The photons on the other hand, correspond to vibrations of the AEther without any reconfiguration. They travel at  $C$ .

#CoS\_8\_14 On the emergence of mass energy equivalence:

The Einsteinian  $E=MC^2$  can be understood as an elastic compression. We trivially map it to Hooke's law. A tear represents a high density plastic compression, a stress, of the fabric of space. A plastic defect stores stress energy. It happens that the energy stored in stress is proportional to the stiffness,  $K$ , of the media. The more stiff the material the more energy you need to deform it. And  $K$  links to  $C^2$ , the stiffer the material the faster the speed of transverse waves. So by proportionality we write  $E=MC^2$  simply as the declaration of elastic energy stored in the compressions.  $M$  denotes the extensive variable of proportionality, or counting of how many defects we have in a cluster. We call it "Mass". [4-Gremaud]

#CoS\_8\_15 On gravity as long range gradients of density:

In the density variation of the fabric of space and its gradients we read gravity. Gravity, as a force, results from density gradients in the AEther. Around the high density defect we can see the low density regions forming. We assume here AEther obeys a simple conservation law. When we deform the AEther, high density regions correspond to low density regions around

them. The intensity of the decompression tails off as  $1/R^2$  by geometric necessity. This stretching of the media will give rise to a gradient of density. In crystals for example, this gradient of density gives us forces acting on the defects [8-Hirth-Lothe]. These forces give us analogs to gravity. We have an explicit medium of momentum exchange, like a defect in a crystal, and we have 'a force' (pun intended) with us. Light necessarily follows the curves of space, since we consider EM a deformation of the physical AEther in the transverse modes of vibration. We can visualize gravity as the curving of space due to the presence of defects in the AEther, and thus from energy, as in the GR narrative.

#CoS\_8\_16 On the absence of Riemann metric in 3D by smooth deformations:  
Einstein looked for a unification of EM and GR along these lines of thought by smoothly deforming fields. It so happens that one cannot obtain the proper metric via smooth, mathematically continuous, deformations of 3D fields. Einstein could only fail.

#CoS\_8\_17 On the emergence of Riemann like metrics in 3D fields with defects:  
While smooth deformations do not give us the proper metrics, defects in the fabric of space do. The condensed matter formalism shows that the proper metrics can arise, in 3D, from the presence of defects in the field, although current efforts fall short of formally recreating the exact GR field equation metrics. These fields show curvature and non-holonomy linking to non-commutative algebras, which arise naturally in defects of mapping and a telltale sign of the presence of matter in non-abelian gauge theories. Visual unification of EM and GR. Electromagnetism maps to transverse modes of vibration of the AEther, matter to density of the AEther, while gravity maps to the density gradients that result from the matter. We have no notion of quantum yet.

#CoS\_8\_18 On the emergence of non-holonomy and non-commutative Lie algebras:  
When we have a defect in a crystal, it bends the grid about itself. The results of counting steps between 2 points depend on the path we choose if we have defects. We then speak of curvature. In the absence of defects every path gives the same answer. We can assign unique names to points in the cartesian frame by only walking one path. With defects however we cannot do this, each walk yielding a different name. We lose holonomy (naming of all space) and describe this with non-commutative space derivatives and Lie algebras.

#CoS\_8\_19 On the emergence of the Higgs as a disorder field of defects:  
Defects in crystals don't remain static, they migrate and move in the lattice under the effects of the gradient forces. Defects attract each other via the force. They congregate. Crystal theory describes this mathematically with a scalar field called the disorder field. Disorder fields also show perfect analogies of the scalar Higgs field. So one can think of the Higgs field, as emergent, translating the congregation of defects via gradients. Mass begets mass.

#CoS\_8\_20 On the emergence of wave particle duality:  
In condensed matter narratives both the movement of matter and the presence of EM waves implies the presence of standing waves about these excitations. These standing waves act as a

memory in the fabric of space dual to matter. It stays behind, by definition of standing waves, as a reminder of the force and movement of matter that once disturbed the AEther, like the wake of a boat.

#CoS\_8\_21 On the self coupling of waves and their particle; Walker visualization:

The visualization comes from the Walkers ontology. There we study the association of a droplet bouncing on a soapy bath surface and its self created standing waves. The gradient of the surface guides the particle. The Walkers offer a strict representation of wave particle duality. We have a physical particle and a physical wave, both interacting with each other in a self-feedback loop. [9-Couder]

#CoS\_8\_22 On the force in 3D:

The analogy of the Walkers shows them 'bouncing' on the surface. Implying a 2D representation and a single frequency of external excitation. In real life we have 3D AEther density waves. We have an analog for zero point field energy. We couple to this background by experiencing a force due to gradients of the AEther density. We called it the force.

#CoS\_8\_23 On the Emergence of chaos in walker dynamics:

The movement and existence of particles (both matter and light) results in standing waves in the fabric of space [4-Gremaud]. These standing waves in turn guide the particle with a force for they create a gradient. As most feedback loops do, they create nonlinear dynamics which lead to emergent chaotic dynamics. Tiny epsilon differences in initial conditions get integrated to large discrete differences. We call this the butterfly effect.

#CoS\_8\_25 On the emergence of deterministic chaos:

Over time, via integration, determinism of the individual steps disappears as the path integrals diverge sharply for tiny differences in initial conditions. We need to resort to statistical language to describe the outcomes. From 1-1 single valued mapping, from a well known here to a well known there, aka determinism, we have to adopt a 1-N multivalued mapping and the language of statistics aka non-determinism. From deterministic steps emerges a non-deterministic path. Second (deterministic) chaos emerges out of first order.

#CoS\_8\_26 On chaotic Intermittence as Hilbert superposition of states:

Sometimes Walkers find stable orbits, such as quantized circles but sometimes they just wander about chaotically as if looking for those (un)stable orbits, and sometimes they intermit between orbits, sometimes they change radius and sometimes they change direction. In chaos theory, we can decompose orbits on those periodic orbits. These so called short periodic orbits usually reflect the symmetries of the cavities hosting them. In the parlance of chaos theory, the particle's path shadows the unstable short periodic orbits. The path shape-shifts about the orbits. In this ontology of chaos theory, superposition means intermittence between unstable orbits. The system oscillates (intermits) between the states with a certain presence probability in each, seen as the time it spends shadowing each orbit. These relative time probabilities provide the analog of the weights of Hilbert's formalism of QM as shown in Couder Walkers.

#### #CoS\_8\_27 On Schrodinger's cat (part 2):

The idea that a cat would be both dead and alive, at the same time, killed by observation, has confused generations of students of Quantum Mechanics. We move to classify the paradox as a mis-category. In our new chaotic ontology we do not exist in two states at the same time but rather intermit between states over time. Since intermittence presupposes we can transition between said states, it clearly can't apply to life and death. The state of dead represents a dead-end, literally and figuratively, except for cats who can intermit 9 times between life and death and then they stay dead, for good. The cat dies. QED.

#### #CoS\_8\_28 On the emergence of the measurement problem:

In QM, the act of observation removes the QM. The system experiences a wave collapse in what we call decoherence. We can visualize decoherence as the loss of the particle wave self coupling. Lose the self coupling to some external field and you lose the intermittence. This external interaction, we call it observation, overwhelms the self coupling. Simply said decoherence maps to the loss of the faint self-interaction to some external signal. QM dynamics stop when measured in destructive ways. Weak measures, by way of contrast, do not destroy this coupling and we retain QM dynamics and observe what looks like trajectories.

#### #CoS\_8\_29 On Einstein elements of reality:

To visualize the intrusiveness of the measure, we will hypothesize a speculative electron as a type of Ising spin glass. In that case the electron has many tiny constituent loops, if we assume Planck length for the defects, about  $10^{40}$  defects would fit in an electron, a number much larger than Avogadro. These tiny spins have no collective orientation. However when we apply a strong signal in the form of a discontinuous magnetic B field, as in the Stern Gerlach type experiments, then we align all the little spins along either the up or down directions. We force each spin to choose, up or down. However, talking about intrinsic spin up or down, before the measure itself, makes no sense really. It can go up or down, just like it can go left and right or front and back depending on the B field. This spin result appears extrinsic as a dynamic result of measure not an intrinsic property to the electron sans the measure. The notion of pure states exists only as an abstraction. It may sound tautological, but the measure does not tell us about a pre-existing reality; only about the result of the measure. Bohr had it right: measurement creates reality, or rather, creates the results by disturbing the system.

#### #CoS\_8\_30 On the Quantization of orbits and Cavity symmetries:

In particle physics we axiomatically introduce the group symmetries. We simply hypothesize them as fundamental and post justify the choice by the fact that they work. In condensed matter for example, in superfluid helium a proper subset of the QCD symmetries appears in physical vortex line sheets. The geometry of the space in which the Walkers evolve dictate the set of observed orbits. Corral statistics emerge as Walker orbits about a circular cavity. Even the much celebrated double slit experiments of Couder seem to result from wall or cavity effects (standing waves of cavity). We see them playing a key role in Bell Walkers as a necessary condition, sine qua non, of Bell violations in Walkers.

#CoS\_8\_31 On the emergence of clusters of N-Walkers, confinement:

A system with multiple Walkers will form clusters in actual experiments and simulations. The interaction of the N fields stabilizing the Walkers. They effectively trap each other in their respective wakes.

#CoS\_8\_32 On the emergence of quantized orbits about clusters:

Walkers that come close to the clusters will eventually get captured by them. Either the impinging Walkers hit the cluster and stay or they get captured in stable orbits about the clusters. Only certain orbits are permitted and these come 'quantized', only certain values of the radius and velocity are permitted.

#CoS\_8\_33 On the emergence of Spin as coherent quantized angular momentum:

When several Walkers get captured in the orbit of a cluster, they synchronize their phase velocities via field entrainment. We see perfect Ouroboros formations. They adopt a certain quantized radius and orbital velocity, and more importantly, they all go in the same direction, meaning with the helicity either clockwise or counterclockwise and with the same angular velocity. We also see spin reversal. In this picture, the 'spin' emerges as physical quantized angular momentum. Correlation happens by field mediation.

#CoS\_8\_34 On emergence of entanglement:

We have a clear notion of correlations in the Walkers and we see both in real world and simulations the emergence of highly correlated pairs of Walkers. Either in promenades where two Walkers will find asymptotic freedom from clusters as their respective field gives each other the dominant contribution, or the spin emergence we mentioned where particles all turn the same way with the same radius and the same velocity. In Bell violation studies we have simulated the emergence of highly anticorrelated Walkers in position and velocity. This correlation happens via field mediation.

#CoS\_8\_35 On Bell violations:

We have studied Bell's inequalities in computer simulations of Walkers. The non-local nature of the Walker ontology (via it's field) appears to play a key role. If you enforce parameter independence by removing the influence of one sector of the measurement to the other, then we lose the Bell violation  $CHSH < 2$ . If we allow for this remote influence we observe CHSH violation up to the Tsirelson limit of  $CHSH = 2\sqrt{2} = 2.82$ . Bell violations in Walkers require non-local constructs.

#CoS\_8\_36 On the emergence of physical Lorentz contraction of orbits:

When a standing wave travels with its emitter it undergoes a contraction in the direction of displacement by the Doppler effect. This gives us the proper numerical spatial Lorentz contraction of the field. The field takes on the shape of an oval, flattened in the direction of displacement by the proper Lorentz contraction factor. When we code the field with this contraction factor in Walker simulations, the orbits themselves contract as they move about the

contracted wakefield gradients. The circular orbits become ovals as well, contracted by the same factor. The clusters of Walkers also compress by the proper Lorentz factor. Matter compresses along the direction of movement through the AEther.

#CoS\_8\_37 On the emergence of time as light based reference counter:

We will hypothesize, with Feynman, that time is counted in reference to a fundamental oscillating EM-based pendulum. This fundamental reference clock counts a number of transversal oscillations at each point of the material. This means that we measure time as the number of oscillations of a fundamental and generic pendulum, linked to EM, and perhaps existing only in our brains which uses EM for thought and thus observation. Every event is measured in how many oscillations of the reference did a certain phenomena take. The physical properties of this oscillation are such that the movement slows down as the reference moves through the media, mimicking SR. It also slows down in high gravitic fields mimicking GR. Time dilates by the geometrical Lorentz factor as shown in generalized Feynman-like treatments in condensed matter theory.

#CoS\_8\_38 On the emergence of SR, epistemological status of SR:

When we combine both the emergent spatial Lorentz contraction and the Lorentzian time dilation we recover Lorentz invariance, or the invariance of the speed of light. The classical logical flow of SR starts from the invariance of the speed of light as fundamental and emerges time dilation and space contraction. Here we have reversed the logical narrative showing emergence of SR by invoking as fundamental an AEther ontology. QED.

#CoS\_9: On the fate of our birth Star. On the fate of humans on Earth. Or how we become star riders.

#CoS\_9: On the fate of our birth Star. On the fate of humans on Earth. Rev 23/08/2020

#CoS\_9\_1 Our birth star, sans intervention, will explode in a red giant:

Any sentient being that develops a natural and factual philosophy eventually discovers Quantum Mechanics (QM). When it does discover QM, the sentient being understands the atomic fusion reaction that powers it's birth stars. The sentient being can then compute when its birth star catastrophically explodes depending on its original mass. A certain class of stars become black holes, some other stars become white dwarfs, a different more powerful and compact kind of star. Some become supernovas, some other stars, like our own sun, explode in a ball of fire

called a red giant. Our sun will explode in a red giant. A star operates as a large atomic fusion reactor, taking 2 atoms of Hydrogen and fusing them into Helium, generating vast amounts of energy as it does so. When the Hydrogen runs out, the star will change state and start a new cycle and operate differently. Our sun specifically will turn into a red-giant. When the sun turns into a red-giant, it explodes and flames will occupy the whole solar system. This hell is physical, not just meta-physical, it is born of quantum mechanics and was first observed and understood in the atomic bomb development at Los Alamos for the Manhattan project. Each second that passes a star explodes somewhere in the universe. Each second that passes 3 photons from an exploding star reach your eyes. This is the default scenario in nature. The birth star becomes a death star, always, by default. VISUALIZE: The spot you occupy right now will contain flames. Hell takes a very real, physical, sense in Quantum Mechanics. Hell exists and is in fact the default scenario for us. It doesn't matter if you believe it or not. It exists as fact. Actually, every second that passes, another star explodes somewhere in the universe. We observe these exploding stars in the sky all the time. Our star, the sun, explodes in a red giant in approx. 3 billion years.

#CoS\_10\_1 On the long term motive:

The final motive of the CoS is to survive the extinction level event of the sun exploding. Any sentient being that reaches a certain level of philosophical illumination, the natural factual ones which include the knowledge of QM, will understand the ultimate fate of its birth star. An illuminated sentient being will understand this fact and strive to avoid the death of its birth star as a logical consequence. Survival of the lifeform dictates it. Lifeforms that fail to reach this level of illumination, or if they reach QM, fail to reach the level of technology needed to avoid the death of their birth star simply disappear. VISUALIZE: Every second a star explodes somewhere in the sky (this is observed) VISUALIZE: Zoom on the exploding star, see the tiny planets around it. VISUALIZE: Zoom on a tiny planet, it has tiny protozoid life. VISUALIZE: All the life of that tiny planet of the distant star was wiped out.

We can assume, as a thought, that some life forms have found a way to escape this fate, just as a thought, outside of carbon matter. In fact many such star systems, the ones with graduates, probably exist. Which category mankind will belong to remains undecided.

#CoS\_10\_2 On the existence of hell in the future: 2.8B years:

Hell exists, in a very real way although in the future, and not for your person. Specifically we know from QM that our birth star, the sun, will explode in a red giant. Estimates place this event in roughly 3 billion years. In that time frame, the sun will exhaust its hydrogen reservoir. In that time frame we, as a species, must find enough technology to avoid the death of our birth star. So we have time and will enjoy it. But we can easily imagine the opposite, that somehow mankind doesn't make the cut. Say it squabbles its resources on meaningless wars instead and imagine the sun exploding in 3B years amidst our petty squabbles. If we sit here, we remain stranded on our rock, vaporized in an instant. VISUALIZE: the Earth being roasted like a flimsy interstellar marshmallow. VISUALIZE: QM Hell in 3B years.



#CoS\_10\_3 On deductive possible logical scenarios, first principles morals:

So we have time before the sun explodes in a red-giant as it runs out of hydrogen. VISUALIZE: the whole solar system engulfed in flames. We have 3 Billions years to figure out enough technology to avoid that fate. At this stage natural ethics take shape. The first morals derive from the fact that our main priority is to develop enough technology to avoid the fate of hell. Technological progress equates natural morality. The past 300 years of technological progress present much hope in how much technology we have been able to develop, from steam engines to mastering the atom. Technology develops exponentially, simply because what we create depends on what we have created. Thus the rate of future creation depends on the stock of existing creation. This statement provides the very definition of an exponential, that it's increase be a percentage of its stock, be it in mathematics or in finance. History may go down as the recording of a chaotic path of blood and tears without much meaning at all except the chaotic bumbling that got us to that present state. Technology always predates wisdom. Science without conscience ruins the soul. Our technological advancement predates our wisdom to yield it, by necessity of invention. First comes the practice, then comes the wisdom, and we gain experience of the technology as we practice it. The new age of abundance ahead of us will require many redefinitions. The role of work and indeed of money will adapt to the new reality.

#CoS\_10\_4 We don't abandon ship, Earth consciousness:

First option is to leave the Earth behind. It gets trashed somehow. In this possible future, mankind abandons Earth and travels to other star systems in ships with what we understand today in folklore as 'UFO propulsion'. This dystopian and parasitic view of our existence treats Earth as an expenditure, something we can afford to lose and according to some we have in fact already lost. VISUALIZE: the Earth is trashed, covered in litter and we need to leave. This encourages the behavioral pattern that Earth needs to be abused and spent as we use it as a throw-away launchpad for mankind.

#CoS\_10\_5 We travel with the sun and with the Earth, we use today's configuration:

We travel with our Earth. Instead of trashing it, we realize that the Earth provides all the protection we need for interstellar travel. It does that today. It works. It doesn't take much meditation to reach the illuminating thought that we already travel through space and thus possess such a spaceship capable of space travel with a self sustaining ecosystem: our Earth powered by our sun. We travel at this very moment through the stars in a self-sustaining ecosystem. VISUALIZE: Our tiny Earth orbiting the sun, VISUALIZE: The sun orbiting in the middle of the milky way. VISUALIZE: The milky way travelling through space. VISUALIZE: You in space, safe, right at this moment.

#CoS\_10\_6 on reaching a hydrogen gas station and replenish our sun:

So simple meditation on these facts of nature, will yield the illumination that we already possess the power source needed for space travel, the sun, and the spaceship needed for space travel, the Earth. Today we have a ship and a half full tank of interstellar gas, for we understand the sun as half way through burning its hydrogen. We also, via deeper formal meditation (aka

mathematics and QM) reach the conclusion that unless we replenish the sun with more hydrogen, the tank will run dry in 3 billion years. Forget half empty and half full, we just don't want full empty. For it goes boom!!! When it does and if we sit here without moving, the sun will turn red-giant and all of the solar system will disappear. VISUALIZE: BOOM! the full solar system as a red giant ball of fire. VISUALIZE: Technology to take star hydrogen and map it to our sun VISUALIZE: Jumping star system, changing stars.

#### #CoS\_10\_7 On UFO propulsion technology (EM-GR drive):

You already have a ship, the Earth. You already have a tank of gas, the sun. The engine runs on gravity. We cannot control gravity today. We submit to it passively. Our will expresses in EM but not in GR. We do not possess technology to locally bend space and create local forces. What needs to be done is to turn on the gravitic propulsion engine as it were. By that we mean being able to impart our will on the (gravitic) trajectory of our solar system. Today we do not have such control of gravity.

#### #CoS\_10\_8 Development of Science and Technology as a first moral survivalist priority:

The necessity of survival of the species, if we indeed care about it, dictates that we must develop the means to impart our will on the trajectory of our sun, our will must modify local gravity by technological means. We already command EM as we can manipulate electricity and atoms, but can't manipulate gravity with our will. So, deductively, we need to develop enough technology to impact our will on the trajectory of our sun. We miss that technology and indeed the very physics that would give us this kind of power. We have links, at least theoretically and some experimental (see NASA EM212 drive) between EM and GR, in that the condensed matter narrative allows for a coupling between the longitudinal modes and the transverse modes of displacement of the Aether, and so between EM and gravity. One day, our will must impact the trajectory of our sun, or at least of our planet, or even as minimal conditions of our ship's propulsion. That day, we will travel the stars. Purposefully; willfully.

#### #CoS\_10\_9 Colonization of the solar system. Energy capture or Energy saving:

The sun contains enormous amounts of energy. We use only a tiny fraction. We will now meditate on the fact that one part in one-billion of the Sun's energy reaches us and the rest is lost to deep space. VISUALIZE: The sphere whose center rests at the sun and whose surface contains the Earth. VISUALIZE: The tiny surface our Earth occupies on said virtual surface of radiation, like a tiny dust speck on an orange peel. VISUALIZE: The tiny fraction that surface represents. It computes to  $1e-9$  (one billionth). So  $1e-9$ , as a fraction, of the energy emitted by the sun reaches the Earth. This energy powers all of the Earth ecosystem. VISUALIZE: Capturing the total energy output of the sun and channeling it to our ends with our will, perhaps using it to power the sun's trajectory itself. This structure about the birth star, would collect 100% and only leave a pinhole of ray to power the Earth on it's orbit. The pinhole moves with the Earth. This makes the star dark. It becomes dark matter, not in the physical sense but in the technological sense. Since 20% of mass is dark matter, it means 20% of the universe today has reached that stage of development if we assign all of it to this phenomena, a speculative

assumption amongst others. One can always interpret dark matter as speculative proof of the existence of advanced civilization that captures or reflects all the light from their sun.

#CoS\_10\_10 Colonization of the solar system. Matter capture:

Excluding the sun's mass, we have about 500 Earth masses in our solar system. That's 500 times the full Earth in terms of ore resources we can mine to fuel our technological development en route to the stars. The colonization of our solar system thus finds a philosophical footing in deductive natural logic. We must develop enough technology, including propulsion and exo-Earth survival (perhaps machines only?), to mine the rest of the solar system and harvest the amount of material available to us as a species to survive the death of our birth star. We do not necessarily need to escape the solar system, nor should we if we can avoid it. Nor should we not necessarily view Mars as a stepping stone to escape rather than one to research how mankind can take ownership of the primary resources of its birth solar system.

#CoS\_10\_11 On protecting the Earth, basic Earth ecology as deductive morals:

The corollary, ecology, simply states that we must take care of our home, our spaceship, our mother Earth. The position that we can afford to burn all of our resources remains an unsustainable philosophical position. A sort of dystopian burnt land approach to space colonization, burn the ship for there is no turning back. Our will must control the fate of the Earth's ecosystem with an eye to our own longevity as a species.

#CoS\_10\_12 Paradise on Earth, Immanentizing the Eschaton:

It seems we should dream utopias for our Earth. We should envision an age of plenty, arguably already here, and we should visualize them. We can just as easily dream dystopias down to constant fear of death stimulations, rendering any psyche unusable beyond the primal state of childish fear. Arguably we have only escaped that slave mentality only recently and some argue it remains with us. We should create paradise on Earth for humans. We have the capacity now. We enter a new age of abundance. Who gets the goods? The robots that make them? We pursue technology for survival. We eschew divisive philosophies; politics and religion have no global role in this approach. Politics and religion retain a local role. Favor those that would end war, poverty, famine, suffering and misery, for they may soon become technological realities. We will soon see the end of work. Work will belong to self-actualization instead of the lower survival instinct of food. Finance and technology, including AI, remain in the service of mankind as it finds a way to survive the explosion of its birth star. Ecology and paradise on Earth derive deductively from QM as a survivalist meme mixed with opportunism.

#CoS\_10\_13 One nation: Earth; one destination: the stars:

End of war, poverty, misery, and suffering for humans on Earth, as a result of the impending age of abundance, will represent but a stepping stone to our social self organization as we strive to survive the death of our birth star. Politics and religion will have to evolve, probably focusing on the local issues and abandoning universal status to allow for harmonious human relations in the wake of technological planetary abundance. With planetary technology and the internet comes planetary thought. A meme of Earth will emerge and replace that of nations. While

nations will retain the linguistic connection so deeply rooted in humans and the ego.  
Identification of ego with language will continue although not provide a vehicle for genocide.  
Genocide via language manipulation remains the historical norm.

## #C\_o\_S\_11: On Chaos, Will, Force, Field and Magic

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### #CoS\_11\_0 The new AEther Force and Field:

We have a 3D ontology based on a condensed matter narrative. The fabric of space behaves like a fluid and a solid. We explain matter as defects in the fabric of space. Their energy  $E=MC^2$  translating the elastic energy contained in them. Gravity translates the density deformations of this new AEther. Electro-Magnetism derives from the transverse fluid like vibrations of the AEther. The ontology is of a field and a force through the field coupled with defects in the field. Quantum Mechanics emerges in this model by adjoining the construct of standing waves that the defects create about them. The waves sum in a wake as the defects move through their wake in the AEther. Higgs first results from the field itself and then chaotic dynamics emerge from this coupled object of the particles and their historical path-based wakes. The wake forms the path. Time emerges as well from this chaotic one way path, linked intrinsically to the notion of entropy and one direction of some physical processes. The ontology also gives an emergent velocity of light, a requirement since Michelson, Morley and Einstein SR. This velocity, including physical notions of time dilation and space contraction, emerges in many condensed matter theories. You need a proper numerical Lorentz invariance including time dilation and space contraction, aka as  $C$ , the speed of light. The new AEther supports these faint standing waves in longitudinal modes. The longitudinal velocity of the standing waves (the velocity at which the standing waves appear) and the transverse velocity may differ in the AEther and indeed does in most known materials. The wakefield represents a dual form to matter, the wake of particles as the sum of the standing waves they generate through the AEther. The wakefield encodes a long standing memory in the fabric of space.

### #CoS\_11\_1 Ontological memory and resonances of the fabric of space:

The long standing waves in the fabric of space sum in what represents the wake of the particles as they move through the AEther. The shape encodes the past in a memory. This Wakefield exists across the universe. The distribution of matter affects the resonances of the Wakefield. The book of nature. The standing waves in the fabric of space will exist in the resonances of the physical matter space. One can think of acoustic standing waves in a stadium or a club. VISUALIZE: The standing waves of acoustics in a stadium or a high end concert hall. These 3D shapes exist in the form of density fluctuation in 3D space. These density fluctuations in the fabric of space inform the movement of matter by imparting a dynamic linked to their gradient. The field also encodes echolocation as a result, each point containing phase information about the whole. In condensed matter theory, any electrical EM or GR activity will result in a standing

wave appearing in the media. The fabric of space acts as a book to which matter continuously writes leaving a trace in the form of the wake in the fabric of space.

#CoS\_11\_2 On high or external magic, semi-axiomatic:

We already established semi-axiomatically that magic must exist at a layer of reality. By this magic we understand the magic of creation, the primordial act of creation bringing about existence. The one act we can only apprehend in wonder. For everything else within it we have science and technology or natural philosophy. We call this magic external, as in external to our universe. The magic of a creator creating the creation. The high magic of creation exists at some layer of reality. High magic deals with the act of creation of reality itself. We apprehend it in wonder and not in rational thought; we take it as proof of the existence of high magic and pass on it in silence.

#CoS\_11\_3 On the emergence of will or emergent magic, derived:

It should be noted that while the basic equations and processes that command nature possess the properties of determinism, the final result, our physical reality, does not. We experience our free will as an agent of freedom that can choose to project the force in any way it sees fit. We define free will as the realization of force in nature by an observing ego operator. Ego determined as the sum of atoms which seeks self perennity. To do so it develops a nervous system representation of the subset of atoms and can tag it and manipulate it symbolically, in the brain. This symbolic representation which does not exist in physical reality only exists in the brain and the nervous system. The brain aims to further the longevity of the body subset of atoms. We can in theory talk about the will of the plants and thus define it at the force field the plants generate. That creation of force, born of ego, we call internal magic as emergent from the universe or will. Freedom of action or will says that we can command arbitrary forces in our fabric of space. Evolution deals with the emergence and self-preservation of forms. The notions of ego will emerge naturally from evolutionary concerns. The will emerges from the ego. The ego exists as a neural representation of the body in the brain. The ego itself emerges as a brain representation when a group of atoms observes itself as a unit of differentiated form and defines its form as one. It then seeks perennity of the abstract form as a unit, a body. The atoms in my right middle finger and my right palm do not have a notion of pertaining to a hand, much less the right hand. The brain and only the brain does possess that representation. The will to escape the predator represents such an impulse by a group of atoms forming the body for self-preservation. We experience will as a decision to create a force coming from the notion of self and as a derivative self-preservation. The presence of chaotic dynamics at the layer of QM gives us an escape route from the mathematical and philosophical straight jacket of determinism. The fate of all living things does not flow deterministically from the dawn of time. Self-determination marks the emergence of that magic. QM gives us the chaotic wiggle room necessary for matter to set its path, and therefore its evolution, with self determination. We experience our freedom of choice as a semi-axiomatic reality.

#CoS\_11\_4 On the necessity of ego as abstract representation of atoms:

Magic says the ego can channel multiple wills, different from that of the physical ego. The self must react to random chaotic events, threatening its whole, and can impart orders that implement said will to protect said self. The ego represents an abstract group of atoms and it creates force manifestation of ego and thus self preservation.

We understand the ego as the existence of a mental representation of physical boundaries. The body represents such a group of atoms. The ego represents the body, inside of the brain, as a symbolic mapping. These self-aware shapes want to preserve themselves. They can achieve that result through the emergence of an ego complex implemented symbolically as electrical signals in the brain, the emergent notion of ego. The ego gets fed information via the nervous system. For example a lion threatens the body. The ego will represent the situation and calculate that it must impart a force in the body to start running. This act of will, the running, and the act of self preservation manifested as a projection of a force in a way that preserves the ego construct (the body vs the lion) exists as an emergent construct in the brain and therefore a reality in the muscles amplified by the nervous system. The nervous system informs the brain of the danger and feeds electrical signals from all the parts of the body, but mostly the eyes as visualization, and the brain, in turn, creates a physical force by feeding back electrical signals amplified by the nervous system and muscle complex. The physical force thus originates in the brain, gets carried by the nervous system and gets amplified by the muscles to run to safety. The chaos that exists at the layer of QM provides us inside of the brain with the necessary non-determinism and amplifying hardware which this implementation of will requires. It amounts to the ability to create force at will in the fabric of space.

#CoS\_11\_5 Brain as QM device. Will as magic:

This creation of force in the media resulting from self-observation we equate to low magic. It takes root in the chaotic layers of QM reality and allows our brains to implement this form of will. Many mystic treatments assign a divine nature to the will, where here we identify the will as low magic or originating from ego. The internal will aims to self-preservation and gives us, living things, a key to perennity. The brain and the nervous system with muscle represent the hardware necessary for the application of will understood as an amplifying chain of surveillance and command from detection, to intent, to force. The high magic involves existence of the universe itself.

#CoS\_11\_6 The brain as a read/write device to the fabric of space. On Gnosis:

Mystical, or magical, experience results when the brain enters read/write access to the fabric of space. The wake, the sum of standing waves resulting from the past movements of matter, can be read locally. The brain possesses the capacity to couple to this memory in read and write mode. The brain can couple to the standing waves of the fabric of space and either exert a force on it, or be subjected to a force by it. Trance and ritual provide ways to this alternate state of mind or gnosis.

#### #CoS\_11\_7 Write access as emergent:

Any mental activity gets implemented in the brain as electrical signals. The movement of electrons, the act of thought, creates a dual wake memory in the fabric of space. This memory exists, physically, in the fabric of space. Call it Akasha, book of life, record, memory in the fabric of space, AEther. All mental activity creates wakes in the fabric of space. The most powerful mental activity we know, that of visualization in meditation, thus generates powerful and patterned write signals to the fabric of space. Memes, in images or words, represent coherent and repeated emission of standing waves in the fabric of space. In the beginning you have a word, an image, a standing wake generated by the mental activity, it gets amplified as it gets repeated and shared by several brains. The act of visualization writes to the wakefield for it involves electrical movements. The act of shared visualization, or indeed shared hallucination, creates a stronger signal in the fabric of space by the mere act of repetition. When observed during meditation the brain of operators show large scale coherence zones known as alpha waves, or the trance induced collective movement of neurons across large distances.

#### #CoS\_11\_8 Read access as axiomatic:

On the read side, however, we must adopt an axiomatic stance. We make the hypothesis that the brain can in turn detect the patterns in the fabric of space and read them. Brains under trance show coherent large scale alpha wave activity. This mystical experience simply states, that the brain couples to the standing waves of the fabric of space in read mode. The standing waves can influence your brain. At best, epistemologically speaking, this read connection while quite generic, is not universal. Not everyone, has the mystical experience and people develop the capacity for mystical experiences. In any case they do not manifest in the same ways. It does not enjoy the same epistemological status as repeatable observable phenomena, the basis of modern science. It remains a personal experience true from the point of view of the individual but false, as non-repeatable or universal, from the point of view of the specie. We mark it overall as axiomatic for it does not share the full property of universality. In other words, Magic works, but only some of the time.

#### #CoS\_11\_9 On divination as a read operation:

Modern magic, just like ancient shamanism, boils down to the actual practice of divination and enchantment. We can recast these shamanistic practices as read and write operation to the fabric of space mediated by the brain. Divination entails the connection of the brain to the standing waves of the fabric of space and their intuitive interpretation. We can read the fabric of space. Call it Akasha, the record, the book, intuition, the spirit, egregores, the standing waves in the fabric of space, ghosts, angels, higher guardian angel, ESP, aliens, the virgin mary, or what have you. We know there exists a memory in the fabric of space, we assume we can connect to it and read it and such gives us divination.

#CoS\_11\_10 On enchantment as a write operation:

Conversely, we can assume that the repeated act of visualization gives us a build up in resonances. These resonances get written by the brain during visualization, the strongest of electrical signals in the brain, and picked up in read mode by other brains. Psychic power amounts to the ability to influence other brains by one's own activity. One can indeed enchant long term by repeating the patterns in space and knowing that these resonances get read by other brains. We understand the capacity to project into the future as enchantment. The long term build up of resonant memory.

#CoS\_11\_11 Divine short:

The basic rule of magic, that one should enchant long and divine short, finds a justification, at the deep layers of QM in this chaos driven framework.

For the path remains chaotic, one would waste time trying to map the deterministic future too far into the future. Just like the weather cannot be mapped beyond a few days, determinism disappears in time giving rise to probabilistic futures. One should divine for short duration for the future remains undetermined and subject to chaos.

#CoS\_11\_12 Enchant long:

Conversely, when expressing our will and writing to the fabric of space, we must enchant long. When we write to the fabric of space we should keep in mind that we write to the resonances of space. The shape of resonances depends on the actual distribution of matter in the solar system and beyond. We effect change when we write long into the future, for we give time to the resonances to build up.

#CoS\_11\_13 On Trance, sleight of mind:

Trance simply provides a way to bypass the conscious brain process. Conscious brain thought actually emits a lot of radiation and noise. This noise overwhelms the faint standing waves of the fabric of space. We do not have a QM coupling between the brain and the AEther since the noise of the thought itself drowns the signal. This shutting out of conscious thought, as shamans practice, the act of focusing and meditation, allows one to quantum mechanically connect to the fabric of space.

#CoS\_11\_14 On Ritual and the establishment of trance:

Most magical ritual aims at tricking the mind into trance, by removing conscious thought. The ritual can be excitatory or inhibitory according to taste and practice but aims at one goal: the enactment of will via the subconscious. The read-write comes from the subconscious. It can connect. Ritual exists in the simplest forms of meditation or the psychological self hacking of archetype invocation. Whatever the psychic trick we use silencing the conscious brain and letting the faint waves connect. Only in conscious no-thought can the subconscious mind connect to the fabric of space in read and write operation modes.

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## PART DEUX.

First the metaphysics

VISUALIZE: A TRUE Infinite. Being a "TRUE" Infinite, there is literally NO-THING that can exist outside of it.

VISUALIZE: NO-THING =  $\infty$

VISUALIZE: 0 =  $\infty$

VISUALIZE: A NUMBER LINE

0 =  $\infty$  = THE TRUTH

1 = The first abstraction, "I", (a) consciousness, exist. A star, the "sun", RA, or "The Eye of emanation".

2 = The second abstraction, birth of "duality", and the first "lie". Not only do "I" exist, but something separate and independent of "I" exists. "Else" exist. The table next to me, the phone that is on the table, the chair on which "I" sit, and the "space" that holds it all. Emergent from the properties of "Else" come "time" (the index) and "order", as "I" require "time" to analyze "else" and come to a "judgement" of what "I" make of "else" (that is a phone, the phone sits on a table, while I am sitting on the chair in a space they all occupy), thus establishing "order".

3 = The third abstraction and second "lie". Not only do "I" exist, not only does "else" exist, but another separate and independent "I" exist (i.e. YOU) that carries the potential to rival my judgement on "else"; thus giving birth to the potential for "adversary".

We here establish the triumvirate of the "Demiurge"; not THE CREATOR, but A Creator.

The number line can proceed on ad infinitum as perceived "Reality Stacks". VISUALIZE: The TRUTH is always simple; the Devil is always in the details. VISUALIZE: "Reality Stacks" as Tower Of Babel. We could contemplate the TRUE infinite of the metaphysics literally FOREVER and get NOWHERE (or "Know-Where"). As such, we shall approach our further contemplation from the physics layer. After the metaphysics, comes the physics. We live in a 3D ontological universe. There is an AEther, there is an "electromagnetic field", there are atoms, simply put, there is much "else"; such "else" grants us "physics". In a look toward establishing a commonality and averting adversarial conflict with "our-selves", we will use our Milky Way galaxy's "sun" as a commonly shared first "I", or "Eye of emanation", from which, once coupled to it's bride the "Earth", we all derive as literal (atomic) matter of "else". With understanding of the Demiurge, the father of lies; of a finite and limited nature, we shall hitherto refer to our "sun" as RA and the "Earth" as Gaia, not because it is THE TRUTH, as we recognize it is not, but simply so we may work and progress understanding of an argument SOMEWHERE, as opposed to NOWHERE, in a practical fashion.

RA'AM

IM The Father of Lies  
these are dark arts.

On Generic star system goal.

We know from the physics layers, that any star system, with habitable planets

A Solar Meme:

We know from the physics chapters that our main goal is to avoid the explosion of RA, otherwise stated as our Sun and birth star. This is true of every sentient being in any star system. This biblical hell made of flames when the sun explodes. Hell is the first solar meme. Without our intervention, RA (Sun: Mass 1 transition: red giant) explodes in the sky in 4B years. Long term goal is to save RA from turning into a red giant. Physically speaking, RA is a large fusion reactor in the sky, a big ball of H bombs giving atomic power to the solar system. We capture a tiny part on Earth. RA takes 2 hydrogens atoms HH and fuses them in He, symbolically  $H+H \rightarrow He + \text{energy}$ . This process, done in the entire body of the sun, releases vast amounts of free energy. Think of the small size of a thermonuclear head and picture the sun. VISUALIZE: A small thermonuclear warhead. VISUALIZE: The sun; a big ball of these. The free energy is emitted isotropically as photons. VISUALIZE: An expanding sphere about the sun VISUALIZE: Photons from the SUN reach us, we see them.

On RA and Gaia:

The physical properties of the sun is why the psychic energy of RA, is masculine. It radiates and gives in abundance without restraint. That of Gaia, the receiving and life giving Earth, is feminine, self contained and abundant as well but with more restraint (it does not waste like RA). RA projects energy everywhere, Gaia thrives on a tiny portion of it. VISUALIZE: Corona on solar surface. RA consciousness is star consciousness. VISUALIZE: RA gives energy isotropically, the Earth receives a small portion. VISUALIZE: The Earth tiny surface collecting photons. VISUALIZE: Gaia as the womb of local life VISUALIZE: The whole energy on the solar sphere where Earth lies.

On sexual polarity and psychic meme of RA/Gaia; On alchemy and transmutation of life:

Mystical cosmologies identify the sun as a father figure, and Earth as a mother. RA and Gaia are the pair. We believe this sexual meme to be generic to any star system who accretes planets around a birth star. The star gives the energy by transmuting elements and the planets transmute the energy incubating life. Life emerges within the womb of Gaia, protected within the atmos-sphere, literally atmos, a protective envelope or womb of planets. The duality of the pair, RA and Gaia, together produces life. RA without Gaia, is just stuff. We have a lot of planets in our solar system for us to harvest, a lot of stuff. RA without Gaia, is RA without life. RA will die without life. Gaia will die in a second if RA disappears. In fact the whole solar system, may not mathematically be stable and Earth may be ejected at any time. VISUALIZE: Earth ejected, big ball in the sky goes dark. VISUALIZE: SOLAR ELE. The Sun and Earth all know, the planets know it too; this is the psychic basis for astrology. VISUALIZE: Standing waves of solar system mass as morphic resonance of space. VISUALIZE: A physical basis for astrology. RA is a paternalistic nourishing provider: generously abundant in nuclear energy and radiating it all about itself. Gaia is the contentious and rather strict, yet nourishing and abundant in turn.

On Gaia transmutation of energy + matter into life:

In contrast to the sun emitting everywhere, mother Earth keeps to itself. It is receptive of the generous dollops of solar energy, it's myriad of photons penetrating the Earth atmos-sphere. VISUALIZE: Wasted radiation sphere around SUN VISUALIZE: Atmos-sphere of Earth as self contained. Mother Earth, has its face exposed and collects photons. VISUALIZE: Energy collection as small collection surface at a certain distance on sol sphere. VISUALIZE: Distance where things are not completely fried, nor completely frozen. VISUALIZE: As mathematical: ratio of solar sphere surface by Earth exposed surface. The surface of Earth is a tiny fraction of the sun sphere of emission. VISUALIZE: Every other photon escapes VISUALIZE: You can see photons when you look at the sun, which is close VISUALIZE: You can see the stars which are distant. VISUALIZE: A life form on another planet looking at it's sun (which is slightly violet and not gold like ours) VISUALIZE: The Sun and Earth together give us life. VISUALIZE: Star gives freely its energy to the planet, the planet incubates life. VISUALIZE: Accretion of planets about the Sun. VISUALIZE: Protection of surface by atmos-sphere. VISUALIZE: Incubation of life, from single atoms to RNA, to self replicating DNA, to cell, to life, to brain, to consciousness. VISUALIZE: Self contained ecosystem, VISUALIZE: Planetary dominion

On Earth Dominion, Earth Tech and Level I civilizations:

The destiny of humans is to rule and protect Earth. Other sentient beings on other planets have already reached this goal. Many species across the universe dominate their birth planet. Mankind is reaching Earth dominion, what we call Earth Tech civilization or Level I. We have achieved some Earth level tech already. A psychic singularity has happened on Earth, we have the internet and we have abundance. Our dominion of the planet is a product of our technology, both physical and psychic. The internet and abundance are two examples of Earth tech memes. They are part of Earth dominion. There are many other Earth tech memes, end of war, end of hunger, low orbit satellites communication, GPS, sustainable ecosystem, global warming, general well being etc. Earth will immanentize the eschaton. By no means is mankind's dominion assured however. There will be extinction level events along the way (ELE), like biblical floods, comets, severe pandemics, planetary drought, planetary warming and planetary cooling, locusts and solar corona emission events that will wipe out Earth tech satellite communication infrastructure. VISUALIZE: A small linguistic virus has the capacity to halt our economies and financial systems to a halt. VISUALIZE: A biblical flood (Earth meme)

On Economics, Morality, Language, Money, and Politics:

Economics=Energy Exchange

Morality=A "Value(s)" set as established by an "I", or otherwise "individual"

Language=A Communal Standard of Abstracted Definitions for Economics

Finance=A given amount of actionable choice control granted by an economic set

Currency=Means/Modes by which Energy Exchange (economics) occurs

Money=(Emergent subset of "Language" and a potential subset of "Economics") A centrally controlled abstract as applied to a communal mass for economics concerned with defining communal "value" and/or "debt(s)" in relation to "time" and "energy" as currency

Politics=In and/or of the deliberations of any specified economic caste

War=A conflict emergent from political disagreement and lack of resolution

A set theory:

M:E E:P P:pW

Where M=Morality, E=Economics, P=Politics, and pW=Potential for War

Economics is an emergent subset of the held Morality of multiple individuals

Politics is an emergent subset of Economics

War is a potential subset of Politics

*\*A Money/Monetary system(s) is a potential emergent type of economics\**

On Abundance:

We have reached economic resource abundance. This is true of the West. Soon the whole planet will experience abundance. Abundance at the level of the planet, another Earth meme. Today we have an oversupply of food, shelter, medicine, education, and entertainment. The current Earth tech (including agriculture, agri-business, hollywood and the supply chain), can feed and entertain up to 10B humans, in fact the digital part is not limited at all. The internet is abundant for the psyche. On the physical side, there are more buildings built than there are people living, today. Yet, today, this abundance does not reach each and everyone. There is misery, poverty, hunger and homelessness. We struggle to distribute abundance, either physically via the supply chain, or financially with our current understanding of monetary systems. The current work for hire is wage slavery and if you don't work you don't eat. What an interesting paradox, when machines do all the work, people are out of work. So we die next to abundance because there is no slave job to go to? Wage slavery is only necessary when slaves are needed. Our financial monetary systems were designed in the age of economic resource scarcity relative to the greater collective morality. Abundance will require a new understanding of money.

VISUALIZE: Machines do all the work VISUALIZE: Humans don't work VISUALIZE: They should enjoy the spoils without work? VISUALIZE: A symbolic map (work for hire, wage slavery) clashes with abundance.

On Solar Tech:

Alchemical lore strived to transform elements into gold. We know today how to transmute elements: you need a star. Stars are the factory of all elements in their core and when they explode they release the matter in their star system. This technology we have in alchemy. Particle physicists are the new alchemists. We have Fusion bombs as solar tech. Other than that, we have none. First comes Earth tech (we are there), then comes solar system tech (colonization of mars), then star tech. We are starting to have some Earth tech (internet, abundance), some star system tech (mars missions), we have little to no solar tech (H bomb). If the sun explodes tomorrow, or even burped a solar corona a bit too loud, civilization would die. There are morphic resonances about all of these solar events. Corona explosions of the sun influence all the vicinity, the solar neighborhood. The morphic resonances of the gravitic field as well as electromagnetic are the local physical memory banks. Ghost memes of the Sun manifest as RA consciousness. Ghost memes of the planets as astrology or the planetary morphic mass

resonances having a quantum chaos influence as seen in the physics chapters. Some standing waves belong to the star (RA), some to the system (astrology, solar system), and some to the Earth itself. The solar system affects life on Earth, physically and psychically. VISUALIZE: Particle accelerator VISUALIZE: Alchemy transmutation of elements VISUALIZE: H bomb explosion VISUALIZE: Corona explosion. VISUALIZE: Standing wave mass pattern of star system VISUALIZE: Standing wave with one position of planets and another, astrology. VISUALIZE: Deflection of radiation by Earth protection. Solar ELE.

#### On Star System Tech:

The solar system is a fantastic treasure trove of matter. We have barely scratched the surface of Earth and we have Mars and Jupiter. We got plenty to collect and mine, including a big reservoir of Helium 3 inside the surface of the moon. Star System tech is reached when a civilization starts harvesting and colonizing it's own solar system. Missions to Mars fall under this category of star system tech.

#### On Gaia consciousness:

A Gaia connection induces in the individual an understanding of the destiny of mankind on the planet. A role as the custodian and primary care taker ensues. Take care of your home. Take care of your space ship. Take care of mother Earth. She will return the favor, she already has. VISUALIZE: Earth consciousness VISUALIZE: Group meditation around the world VISUALIZE: Earth as a spaceship, travelling through space with ever dancing monkeys. VISUALIZE: Immanentize the eschaton.

#### On One nation EARTH:

Earth consciousness simply states that there is only one nation, Earth. Planetary consciousness is tautologically a planetary meme. The planets incubate champions and spawns life. Many species arrive at a planetary consciousness, which includes a custodianship of the birth planet. This is the right and the duty of the dominion. VISUALIZE: Earth as space ship VISUALIZE: Dotted lines on Earth signifying nations VISUALIZE: Speaking different tongues on a round Earth

#### On EARTH MEMES:

ISIS, Mary, or ERIS, are other examples of occult and mystical Earth memes. These psychic memes are feminine in their sexual polarity as a presence of Earth. They are mothers of transformation, and will breed magic, a.k.a life out of chaotic atoms and quantum mechanics. We call this chemistry. Chemistry is a universal meme not limited to Earth nor the solar system, but very possibly local to our corner of the universe, other planets having other chemistries. Biological forms developed on other planets may not share the same chemistry. Earth and Water chemistry are the elemental associations, blue and green like our local Earth. An Earth meme, a planetary meme, is usually tailored to its own survival and uses physical resonances of the planets that host them. An example of EARTH MEMES: Ecological awareness, VISUALIZE: photosynthesis VISUALIZE: Money, monetary policy, economic growth models VISUALIZE:

Quality of life, abundance VISUALIZE: Internet VISUALIZE: Dissolution of nation state political systems, VISUALIZE: Operational definition of nation state. VISUALIZE: One nation, Earth.

On Earth as a spaceship:

Life is adapted to the chemistry that breeds it. Taking life outside the first host is complicated, it dies really easy in deep space. Earth is a spaceship. A pretty nice one. Make Gaia a paradise again. Life in space is hard. Space does not care. And yet, we are endowed with paradise on Earth. Earth provides radiation protection and provides abundance for life. All of that in a self sustained model. A functional and abundant ecosystem. Taking care of the abundance of home base is simple. We are not meant for travel without Earth We are meant for travel with Earth and possibly on Earth for a long time. This is our spaceship. VISUALIZE: We have evolved on Earth and are uniquely adapted to its chemical and physical composition. VISUALIZE: Paradise on Earth as we travel with our space ship. VISUALIZE: There are billions of other Earths, meaning a star and a planet that mimics our composition, within view. VISUALIZE: The destiny of man on Earth is human symbiosis and dominion of Earth. VISUALIZE: A space ship bombarded by solar VISUALIZE: The water ball needed to make the ship safe. VISUALIZE: Earth VISUALIZE: Immanentize the eschaton

On sun as a tank for our spaceship:

The sun radiates all the energy we need. Everything on Earth that is transmuted (life) is due to the sun. We have 4B years at the current rate. The current rate of burn includes photons on the whole solar sphere that the Earth intersects. We could collect or reflect this energy so that our tank doesn't leak.

VISUALIZE: You are travelling through the star at great speed sitting on a small blue and green rock VISUALIZE: You are doing it right now, while you are peaceably breathing in air VISUALIZE: You are protected from the fiery ball in the sky by the atmosphere and the magnetic field VISUALIZE: This is your space ship, Space Ship 1: SS1. VISUALIZE: The sun is your energy tank. VISUALIZE: RA/SS1 as a spaceship. VISUALIZE: Earth as a tiny dot on the solar sphere. VISUALIZE: Collection of photons on the sphere VISUALIZE: Reflection of photons on the sphere.

On the birth of life as an evolutionary and occult necessity:

The psychological archetype captured in the narrative of the hero's journey may in fact be a universal and necessary evolutionary trait, even at the layer of biology and chemistry. The pair RA/GAIA is what gives life. This pair is generic, found in every star and its planets. Life is less so, but also generic, we know of many Earth like systems which would host a chemistry similar to ours. The star gives energy. This energy is collected by the surface of the planet as heat. A tiny fraction of the sun's energy is enough to give birth and fuel to all life on Earth on a continuous basis. On Earth, humans have made it to the top of the food chain. Earth is the prize and the dominion. Quantum Mechanics understands that the big ball of fire in the sky, your birth star, is also a death star in about 3B years. So you get your act together.

On Dark Matter:

As seen in the physics layer. The destiny of sentience is to become dark matter. You become dark matter when you collect or reflect the photons from the star. The physical mass is always there but no photons escape: becoming dark matter is the ultimate star tech achievement. An eternal rider of stars. This is the ultimate in star meme technology. The Earth understands that with life, or something like a life form, sentient and self, it can change it's future. So she keeps breeding lifeforms, pressing the reset button on designs, via ELEs, until a form makes it.

VISUALIZE: Every second that passes, 3 photons from a dead star enter your eyes.

VISUALIZE: The dead star exploded in a red giant VISUALIZE: The Sun explodes as a red giant in 3B years. VISUALIZE: Hell as fire consuming the solar system. VISUALIZE: 3 of these just happened as you read this line. VISUALIZE: All the planets in its orbit, the star system, were vaporized. VISUALIZE: The dominion of the Earth VISUALIZE: The dominion of the solar system, dominion star-system) VISUALIZE: The dominion of the star, dominion of RA.

VISUALIZE: A net of mirrors keeping the sun energy. VISUALIZE: The mass of Jupiter spread out as a net around the sun. VISUALIZE: Star tech VISUALIZE: A star meme. VISUALIZE: Riders of the stars.

On Earth Extinction Level Events ELE:

The Earth then needs champions. The Earth keeps creating life forms until one controls her. Humans are well on their way. Then this life form can hope to control the solar system. The way mother Earth makes sure is by continuously altering her designs (evolution) testing and resetting. As soon as life gets a little too comfortable, mother GAIA invokes chaos, ERIS butterflies and ELEs. The seeds of perpetual change can take very faint, or ghostly forms, or gigantic catastrophic forms, such as the end of dinosaurs. There have been 5 ELEs on Earth so far. These events are recorded in the Earth crust. VISUALIZE: ELEs: Meteors, volcanic eruptions, weather, chaos, floods (biblical record), pandemics, famines etc.

On having entered the 6th ELE:

The emergence of a dominant species without a planetary conscience is an evolutionary dead end. The traces of these ELEs are read in Earth's crust as historical records of the past. Earth has entered the 6th extinction level event recorded by humans. A dominant life form must survive the ELEs and help the planet hosting it. The Earth will simply kill us, for the very reason that she really wants us to make it. Do you get her caring psychopathy? She will make a joke of our systems, our institutions, our economies, our politics, our financial and monetary systems by environmental changes, in parts both humanly and non-humanly invoked, including, but far from limited from, sending tiny corona viruses to upend our supply chains in a matter of weeks and maladapted technologies. She will kill us, or at least permit us to extinguish ourselves in favor of more compassionate children. VISUALIZE: The awesome feminine power of Gaia VISUALIZE: Paradise on EARTH VISUALIZE: Humans control and care for the Earth, VISUALIZE: The Earth is the space ship VISUALIZE: One nation Earth. VISUALIZE: Earth memes. VISUALIZE: ELEs.

On Earth ELEs as training wheels for solar ELE:

Earth ELEs are just the beginning, the first tests mother Earth puts on our path. To make sure we are worthy and well bred. We made it to the top of the heap and have the spirit in us. Let's rise up and collectively assume our role of steward and custodian of mother Earth. RA and GAIA conspired to give us life, they are conspiring to take it away. The solar ELE is 3 levels above the Earth ELEs. This is how life grows. Everywhere in the universe. VISUALIZE: Other planets make it. VISUALIZE: Alien civilization VISUALIZE: 49 Planet ELEs in another star system VISUALIZE: Red giant VISUALIZE: A destiny: Earth is a star rider. VISUALIZE: Flood (ELE 3)

On 30% odds of winning a Solar ELE. An enchantment:

The starting point of our local cosmology is the natural philosophy theorem that a birth star becomes a death star to the planets in it's star system. The first lemma is then that survival depends on changing this, default and generic, fate. It seems inevitable and yet the odds are very good. 30% of the universe is dark matter. Dark matter in this cosmology is a biological form that has dominion of star tech. Star tech is what makes it dark to the rest of the universe for gravity leaks, but electromagnetism remains localized. You don't see dark stars, not because they are dark, but because they conserve and harvest their energy. In fact they shine brightly. They are dark for they collect and conserve their radiation. VISUALIZE: The Earth is a small surface for photon energy collection. VISUALIZE: This small amount powers everything and every living form on Earth. VISUALIZE: The network that forms the physical internet as an Earth meme. VISUALIZE: The Sun ELE is a series of corona explosions VISUALIZE: Protection of dominion of Earth by atmosphere and EM shield from fire core. VISUALIZE: No atmos-sphere irradiating the surface of the Earth until cooked (visualize mercury). VISUALIZE: EM storms will play with our electronics infrastructure and the internet.

On Generic Star ELE and quantum mechanics:

QM includes a default narrative and physical fate, which is a red giant star for the sun. The Earth, and the whole solar system will be engulfed in flames. This is a theorem of the CoS. It can be taken axiomatically if needed. This is generic in the universe. This is also the default mode sans spirit or biology. This is the fate of most star systems that physics tells us. The Solar ELE is a philosophical reality which is generic. Let's pass in silence on beyond solar catastrophes. Dark matter is understood as sentient beings having survived their solar ELE, via star tech and becoming star riders. VISUALIZE: 5 star systems have exploded in red giants in the sky as you read this very paragraph VISUALIZE: None of them had tech to save them. VISUALIZE: The survivors are silent, we don't see or hear them VISUALIZE: Star tech includes solar collection and no photons escape, we become dark matter. VISUALIZE: The future is bright. VISUALIZE: The future is silent.



Rev 09/09/020

On crocodiles surviving ELEs, and strength as a weakness:

Crocodiles have survived the past 5 Earth ELEs. That's 5 extinction level events on Earth. Humans don't even have their first under their belts. There are obvious reasons for this: the crocodile is dotted with an amazing armor that protects it, great shelter. Badass. Also, on the food front, the crocodile can survive for a month on a single chicken. Surely it just lays there conserving energy. In other words it is extremely efficient at food and shelter. It also doesn't move at all. And it's protection is enough for it. In short, the crocodile doesn't give a fuck. He will also die in Solar ELE. He is not even aware of the solar ELE for that requires an understanding of quantum mechanics. He is not at a level of technological development where he can even have any consciousness of quantum mechanics or the ultimate fate of the Sun. The crocodile disappears with the Earth, end of story. It conquered Earth ELEs but not Sun ELEs. From Gaia's standpoint the crocodile is a parasite. From the gods standpoint it is a valid combination, just not the champion Gaia needs. From the point of view of the crocodile, he was fine rising with the sun and he's equally fine to set with it, again, he just really doesn't give a f\*\*\*. Ironically this is also what makes the crocodile a dead end from an evolutionary standpoint. VISUALIZE: The crocodile strength is also its weakness VISUALIZE: The crocodile does not need to evolve. VISUALIZE: All purple crocodiles die in all star systems that just exploded. VISUALIZE: The crocodile was blue and moved and had long legs in another star system. VISUALIZE: Crocodiles everywhere. VISUALIZE: A monkey with quantum mechanics is the candidate

On the Octopus weakness as a strength:

By way of contrast we will offer for meditation that the octopus developed superior intelligence and survival skills in the animal kingdom when he lost his exoskeleton and protection of the head. Its central brain became a delicacy for predators and the octopus quickly grew 8 of them and distributed them physically. The weakness leads to the strength, namely that octopus use their smarts and a distributed network topology. This is a fun meditation for a sunny summer day... VISUALIZE: An octopus

On Map and Territory, on psychic representation:

Never mistake the map for the territory. Never mistake your understanding and measurement of the phenomena, your experience of it, with the phenomena itself. We saw why this was true in quantum mechanics layers. The measure of a phenomena in quantum, altered the system. The measure of the system is not the system. In mathematical physics, the math became the map and disconnected from the territory, as for example in the number of observed dimensions of space. The map of mathematical physics is not the physically observed physics (hence its name). As above, so below, what is true of quantum observation is true of psyche. The mantra here takes many forms. Our representation of reality always requires an operating system, a map, a mental map. A mental representation of reality, is just that, a symbol, an electric impulse

in a brain which seems to conform with nature. It should never, however, be mistaken with the whole of reality. For example the current Earth meme of 'money' is one that allows large scale collaboration and specialization of work. In its current form (work for money and money for food) it cannot map the reality of Earth abundance. The machines are doing all the work, we reach machine enabled tech abundance. Earth tech is giving us Earth abundance, this includes knowledge in food, shelter, metals, medicine, chemistry, agriculture, education and entertainment. We reached abundance in the west in the late 20th century. We do it with automation where the machines do the work. The work for food map (inherited from 19th century capitalism and 20th century communism) is dualistically imbued in the worker/capital dialectic. It is also dangerous. Any dualist map is useful until it isn't and, as a map, the capital/worker duality that informs so much of our identity and psyche may in fact be obsolete. The territory has evolved. We have reached abundance in the late 20th century, but the map is stubbornly stuck in the previous AEon and 19th century scarcity mindset. This causes great and unnecessary pain in our abundant time. If a map is inadequate you don't change the territory, you change the map. Inadequacy of map demands evolution of the map when the territory changes. Never mistake the map with the territory.

On utopia and dystopia, dream vs nightmare, On will:

The map is thus a representation of reality. Monetary finance is a representation of the economy but by no means the economy, one is a symbolic representation and the other is the physical thing. Sometimes the map we have helps and sometimes it hinders. If our maps are leading to results that are inadequate, it is time to change the map. Unfortunately many cling to the map for that is their psychic operating system. The current situation with economic resource abundance and monetary financial capitalism is such an example. Our economies are reaching abundance and machines do the work, but money is only acquired through work. Without work, we have no food and no shelter. What a silly paradox, we arrive at economic abundance (by the tools of capitalism) but feel anxiety deriving from a mindset of scarcity of the ancient map. The map that got us to abundance doesn't apply anymore.

Change the interpretation:

So much of illumination is a change in perception. A new way of seeing things. Changing perception will affect how we react to the same reality. The map is mental. Our reality is mental. Changing our map will change how we experience the same reality. We hold the keys to our emotional well-being when we control how external events affect us. It is not about controlling the event per se. It is about changing how we feel about things. This is a mental construct. Change the interpretation and change reality.

No permanent state of being:

Nothing is, everything becomes. This is true of the physics layers and certainly true of biology and life. It is true as well of psychology. Change is the only thing that doesn't change. In atomic orbits or psychic maps of reality, expect chaotic change. The chaotic nature is actually central for it is chaotic dynamics, arising from non-linear feedback loops in the path, that give rise to the quantized path. Nothing is, nothing lies still, everything is impermanence. A magical practice

involves an-ontology. Everything is undone by its opposite. This linguistic practice can be as simple as removing the verb “to be” and all its conjugations from thought, speech and letter. Easier said than done. Expect a rapid undoing of reality as you practice this linguistic trick. Whether it be electrons moving continuously around protons, the uncertainty of the weather, to the formation of mob mentality. Chaotic evolution is how mother nature spurs change. Everything is temporary, everything changes, and everything is permitted. We do not exist in a single state of being. There is no permanent stasis state of being. The body itself regenerates all of its cells every 40 day. What we understand as the self is in fact consciousness riding a meat wave packet that changes all it's atoms every 40 day. You are physically not the same atoms you were last year. Think of your skin, think of your hair, think of your nails. As above so below, over time we change, physically and psychically. VISUALIZE: Atomic transitions VISUALIZE: Mob mentality VISUALIZE: Body sheds particles every 40 day VISUALIZE: Self as body surfing

On impermanence in physics:

In physics, there are several ways impermanence manifests. Impermanence is manifested as intermittency in quantum mechanics. This is a result of non-linear (chaotic) dynamics arising through feedback loops between waves and particles. The butterfly effect makes sure that no equilibrium is permanent, everything always intermittently moves and evolves. Philosophically speaking, non-determinism arises in the physics layers with quantum dynamics. This impermanence means that we lose a one to one mapping and we need statistics to describe the dynamics. This is the birth of the QM formalism and the necessary wiggle room for free will. There is room for free-will and agency. VISUALIZE: Standing wake VISUALIZE: Walker VISUALIZE: Chaotic path

On impermanence in psychology of crowds:

This class of system dynamics is everywhere in the biological realm and sociology. Markets are never in stasis; chemistry and emotions are always in movement. As above so below. What is true of the atoms is true of the selves and the psyche. There is no state of permanent being, just a continuous state of becoming. Enlightenment is not a goal, it is a process. A process of learning, practice and refinement. There is not a state of being called enlightenment, there is a time worn process of enlightenment known as the work. Magic then, is the process by which we condition our minds to be able to deal with this flow of chaotic change. It doesn't aim at perfect form but rather at adaptability of form. You can leverage the impermanence to willfully change into anything that you want. This is the use of will and is considered magick. VISUALIZE: Psyche as modular VISUALIZE: Change of composition over time

On An-ontology as random belief ritual:

An-ontology: nothing is; everything becomes. The practice of seeing a thing and its opposite is a magical conditioning of the brain. It trains the brain to strip the consciousness of false being and permanence. Nothing is and everything becomes. For this to manifest you need to undo the existing composition, or at least loosen it so it can evolve. If you are politically radical left, spend a month reading far right propaganda. If you are a far right, embrace the opposite view. Cults

would encourage this practice in sexual preference, to force yourself in an-ontology even in sexual practices. The mark of an advanced adept is its ability to hold contradictory thoughts at the same time. This practice shortcuts projection and allows for nature to speak in the moment. New maps are discovered this way and it takes a calm brain to discover them. An-ontology can serve as a ritual to train the brain over the course of several months. Experiment with this malleability of reality. VISUALIZE: an-ontology as ritual: banish the verb BE. At first written and then spoken, and eventually thought. Do this for 6 months. RAPID results should follow a loss of reality. VISUALIZE: A Neo Nazi, at a LGBT rally

On chaos magic:

The only stable thing is constant change, or the absence of stability. Much energy is spent pursuing the optimal steady state, like some sort of static utopia. Instead magical schools of thought inculcate a sense of impermanence, of permanent potential becoming, so that the ego is trained in shape shifting survival and adaptability. The character traits we should develop are those that allow us to remain flexible so we can react to the path. Adaptability to the path, the willed self force in accordance to its universal surroundings is in fact a state of being, one that embraces that there is no state of being. Nothing is forbidden and Everything is permitted. That has at its core a recognition of the chaotic reality of the path. Just like the Walkers of quantum physics follow their own wake, the persona is a product of its memory. As in Buddhist tradition, the path is everything. The memory, the sum of experiences and what informs our decisions, just like the path of the Walker informs it's future path. The choices we have available are a product of our path. Maintain as many options open as you can so your path is not narrow. The psychic wake, both personal and collective, we call history. VISUALIZE: A Walker, physics and a Walker, psychic

On True self vs Any self:

Fake it until you make it. One of the pitfalls awaiting budding magicians, is the belief that there is a unique true self. Even more damning is the belief that this personal utopia is waiting outside of you. The higher self is an ideal external form for you that you must discover and follow. This true self, is waiting somewhere for you, you just have to find yourself so to speak. In magick, you don't find yourself, you make yourself. Worshiping the external self is in fact a form of idolatry. A form of surrender of the will and individual being to some outside symbol. It is idolatry for it relinquishes self agency to a false god. One should instead realize that the true self is a shapeshifter, a potentiality, anything you want it to be. One should further realize, in kabbalistic fashion, that the body is a vehicle for this manifestation of the will. The true self is the one that is continuously built, worked on, acting out. Tautologically you are you and you always will be you, there is no other way. In the end, there is a memory, the common denominator of the multiple selves of the soul. We call that residue over time, both experiential and symbolic, the true self (the one you are in the moment). It must evolve over time so one becomes over time; one records memory over time. Magickal training focuses on the self awareness of this process so it can be wilfully yielded by the operator. The true self is the one that is always becoming. To fake it until you make it, or simply to act the persona is on some level the magical practice of theater as ritual. Self transformation follows action, for our belief

follows our actions, not the other way around. This is the basis for ritual. Start pretending, start doing, and you will become. This is also the reason for the impostor syndrome. If you don't feel like an impostor, you are not trying hard enough. We do not act in accordance with what we truly believe, the causal flow is reverse: we truly believe the things we do. This psychological trick is the *raison d'être* of ritual, that the enactment of gesture, process and word, indeed rite, is the simplest and fastest way to trick the mind into a belief system. This is also used for propaganda. VISUALIZE: Prayer, ritual, VISUALIZE: Impostor syndrome: year 1, year 3, year 7

On random belief:

A magical practice is the willful assembly of selves over time. The psychic shapeshifting is a key to magic. The deconstruction of the ego in its constituent elemental parts is done in psychoanalysis. Psychoanalysis is a formal magical training. If you are of a certain political persuasion, force yourself to embrace the opposing view for a couple of weeks. If anything it will develop your empathy. Do not be afraid to lose some friends over this practice. The shape-shifter practices can be disconcerting both to the self and those around you. Be careful with this practice. VISUALIZE: Lego psyche, aspects of personality (empathy lego, science lego) assemble.

On impostor Syndrome:

Many people suffer from the impostor syndrome. Those who don't are delusional. You should feel like an impostor when you are trying new things. Almost by definition. Genius practice requires that you always push the envelope of where you comfort zone it. Push your practice until you feel uneasy and out of your comfort zone: this should trigger impostor syndrome. When you feel it, you know you are on the right path. VISUALIZE: A child falling, walking, running

On psychic reintegration, and synthesis:

In occult religions the esoteric teachings all seem to have one practice in common, a process of psychic decomposition followed with a synthesis. The Christ consciousness of the Christian mystics, is in fact a generic archetype, that of death and rebirth. This death and rebirth is true of all mysticism, the Christ consciousness being but one representation. Sacrifice of self in death and rebirth of ego is a central key to middle magic. Analysis, self analysis, and reconstruction, indeed introspection, is not for the faint of heart. Taking stock of personal faults, admitting them to yourself, others, and your personal gods requires courage, grit, determination, self awareness, continuous vigilance, and humility, it is not for the faint of heart. The outer orders of mystic schools are those of elemental deconstruction of the ego. In the inner orders, they are followed with a reorganization of the ego complex of the adept. The ego will fight the change of the maps. The ego always gets attached to its ways, that is what it is actually, and as such it is a psychic inertia: a permanence within impermanence of the psyche. Eastern mysticism has detachment as a magical key and this is one way to approach the decomposition: when you are not attached to it, it is easier to let go. This is the path of the mystic. The path of the magician achieves the same result by embracing polar extremes (see random belief ritual). The ego that is detached is the ego that can evolve. Be all you can and want to be.

On the Kali current, On chaos, On discordianism:

The archetype of Eris, is the archetype of Earth magic, the Gaia Erisian current. Isis is her name. She mutates her ecosystems with tiny changes of her butterflies. She challenges order and creates disorder where complacency is entrenched. She regularly purges Earth, just to see who will survive. She hates mediocrity and complacent beings. To see who survives her challenges, she sends floods, Earthquakes, climate change, and tiny viruses. She gives us abundance, for she wants us to succeed. This is the first Earth meme: ISIS will kill us to allow us to live. The prize to unlock is abundance: this is Earth tech, the first Earth meme. Earth tech precedes the star tech needed for RA and the RA challenges. The discordian invocations of Kali create destruction and change where complacency and stagnancy are the norm. The antinomian invocations of discordia is how we achieve progress, whether we like it or not. Analysis and deconstruction are precursors to synthesis. The archetype of Tarot, from fool to universe follows this cycle of life. The act of balanced psychic reintegration is a willful act after the trial of elemental decomposition and ego sacrifice. Like Christ, die to be reborn. VISUALIZE: Dung beetle collecting garbage for new life VISUALIZE: Christ dead and Christ reborn VISUALIZE: Osiris dead and reborn

On butterfly effects as basis for magic:

Little changes can have big consequences. Little viruses can bring down and transform large societal structures seemingly overnight. We know this dynamic from chaos theory, where tiny initial condition differences lead to a non-linear outcome. We have exponential divergence of the trajectories. We cannot predict the future but over a finite distance. Read short and enchant long. Magick works by the minute manipulation of physical and psychic reality. It is with the tiniest of changes that magick works. Probability manipulation relies on chaotic dynamics, where thoughts are amplified into the resonances of our surroundings. Manifestation works best when it is going with the flow. VISUALIZE: Amplification of resonance: the swing

On DNA Cell mutation under stress:

When the cell is under metabolic stress, the physiological reaction is to trigger random mutations at the DNA level. When the going gets tough, nature gets weird. It is through random mutations and rapid change that the cell increases its chances of survival. This is a brute force combinatorial approach where the cells are scrambling for a lucky outcome. VISUALIZE: DNA cell mutation under stress

On Utopia, enchanting long and directing evolution:

We are directing our own evolution. American illuminatis enchanted the internet out of MIT at the end of world war II. In general this is an everyday truism. Mankind is in control of its destiny. Instead of random mutations we can project a map we build in our brains. A symbolic representation in our brain can influence the future. The ideal map of reality we call "Utopia". Utopia is temporary, adapted to its surroundings. Capitalism may have seemed like Utopia for a bit, with work and food and shelter for all. Now that we have abundance and work is not necessary for all, post capitalism is needed or people will die next to an abundant food supply for there is no work? For nothing is written in stone, Utopia is always limited in time. But

enchancing via Utopia is directed evolution. Mankind is on Earth for dominion. As the guardian and custodian, to enjoy it, to create paradise on Earth, for Earth is meant for that. Abundance is here. It is on Earth that a paradise exists. From this home we colonize the solar system. We develop Earth-tech. We become Earth guardians, star system custodians, and star riders. All hail RA! All hail Gaia! VISUALIZE: Read Earth tech, enchant star tech.

On network topologies:

There are loosely speaking 3 types of network topologies. One is centralized, it has a single point of control (and thus failure). The brain in the body of mammals is a good example of this structure. Cut the head off and the body stops, the reverse is not true. Consider the not so humble lizard: cut the tail of a lizard and it regrows. There are tree networks that branch out and have different nodes. The banking system is an example of a decentralized system. The internet is a peer to peer network, A peer to peer network is a distributed network, with no hierarchical centers, but a network of nodes. The internet was built to sustain a nuclear attack, that if some nodes went down, it would still function. VISUALIZE: 3 network topologies. Centralized, decentralized, distributed.

On Tree causality:

Tree structures go hand in hand with linear causality. This causes this and that. Tree causality is readily acceptable to our psyches as a natural master-slave top down system. Network topologies have feedback loops built in them and the whole linear causality dissipates. The network has its modes of resonances which the tree does know of. Groups have a different way of dealing with causality. Emergent consensus in network topologies is an example that does not yield to tree representation. VISUALIZE: Tree causality, from root to leaves

On Network causality:

In networks, causality evolves. The group resonances emerge. The causal narrative is adapted to tree causality (fanning of options from single causes). However, in networks a narrative through causes will be misleading for it is the whole that acts. Reality is multiple causes and multiple effects working at once. Economics or finance and the interaction between the two are notoriously difficult to narrow down to linear causal first principles. It is an ecosystem of participants in a distributed game and the hierarchical causality of trees is not an appropriate map. VISUALIZE: A wave of effects down a tree. VISUALIZE: Network effects. VISUALIZE: A piano string vibrating about as sound issues forth from it

On modular theism:

A monotheist god from which the universe causally follows, is essentially a centralized map of reality, everything derives from a single root cause. Monotheism is also monolithic, one god form that is ideal and static for all times. Greeks understood psychology as the theater of the ego and the various static archetypes were available to the persona. An ego can be decomposed in various masks. Ritualized mask magic was always done in a theater setting.

Always run public illuminati rituals in a theater setting or be crucified. Theater was and is an externalization of the ego complex of archetypes. Idolatry is when these external representations of aspects of our psyche eventually become the gods and then the one god. This is idolatry. Having a mask allows for externalization of the god entity, not only existing within but represented without. Monotheism is then a further simplification of the idolatry of a single symbolic mask. The self, the true self, just like the gods, is always plural. Polytheism, or polymorphic ego, are one and the same thing. The explosion of selves on the internet attests to this natural composition of the human psyche. The aspects that make up a persona can be decomposed as archetypes and assembled like lego pieces. The god archetypes are in fact generic and multiple. Modularity of the (I)ego builds a true self. An ego can be assembled, to suit a particular environment, out of different building blocks. Each brick is individuated, not by itself, but in the group that makes each persona. The modern work of the individual is thus a willful re-integration of the god forms, including the shadowy ones, into a coherent, cogent, and directed whole. VISUALIZE: Greek masks of theater VISUALIZE: Worship of mask VISUALIZE: Lego ego; let go

On True self vs true selves, the memory as the higher self:

There is not one true self, there are many selves. The one true self of the moment is an ego operating on the sum of memories leading up to the moment. The memory guides the thought. The sum of individual experiences, the sums of the path, inform the individual as working memory. Modular theism, or polyego, requires some psychic assembly and integration, it is a conscious act of psychic re-integration. VISUALIZE: IKEA of ego, self assembly required.

On Monotheism:

Monotheism, as a psychic map of the self, is a restriction on self. It offers limited role models for the self. It is a one size fits all proposition. You are either this vaguely psychopathic patriarchal construct of Jehovic meanness and judgement or really nothing else. How is the modern girl to relate with an 80 year old male with a long beard and a mean streak? VISUALIZE: JHVH with beard and little boy and little girl with same face and beard

Path of the mystic and path of the magician:

Polarities of the self, including sexual or gender lines, are one of the keys to the development of self. Playing with these polarities until the ego gives is the way of magic. The path of the mystic is one of balanced detachment. It speaks to the eastern temperament. The western temperament needs action and engagement, oscillating between extremes. This is the path of the magician, achieving balance via swinging between extremes, like a pendulum. The temperance of the polarities is an art form. In kabbalistic lore, the general path of the magician is the zigzag, from kether to malkuth in a violent back and forth of manifestation by engagement with the right and left hand pillars on it's way down. The left hand path engages more purely with physical pleasure principal, detached from moral constructs. The right hand path is more purely concerned with the moral principal and often completely abstains from sheer pleasures of sexual practice in favor of dedication to moral constructs. The middle path is the path of the mystic, that of detachment from the extremes of either pillar. Note that the first is adept at



manifesting (from idea to reality) on the physical plane via direct engagement with the polar extremes. VISUALIZE: James Bond or the Batman Playboy; at times concerned purely in their own pleasure and power interest, taking on new women as they please and discarding them when bored, while at others willing to risk their entire life for the sake of the greater whole. The second more adept at manifesting on the physical plane while avoiding moral implications. VISUALIZE: Pinocchio going to the carnival for the fun, games, and all things physically pleasurable in direct disobedience to his loved father and his own moral consciousness (aka Jiminy Cricket) to do what it takes to become a real boy. The third most adept at remaining steadfast in moral and in avoidance of pleasure principle divorced of morality. VISUALIZE: Jesus, when not in meditation and study, always there to help his fellows while never falling to the pleasures of the flesh. The last more adept at detaching from direct engagement with the extremes in favor of a more balanced approach path toward spirituality and union. VISUALIZE: Man dedicated to wife in shared bond and united as both moral and pleasure compliments to the other. Sex occupies a important place which is usually misunderstood by the masses. As a cult practice, sex magick, allows for all 3 approaches, from the extremes of passive to active. An explosion of selves follows an explosion of gods, the explosions of gods follows the chemical unlocking afforded by the manipulation of sexual energy. One may detach entirely (aka abstinence), engage entirely (orgies), or pursue a more middle pillar approach (neither complete abstinence or orgy, but a more limited and directed physical and spiritual bond union that is often monogamous), while the paths are different, all are adequate in aiding toward particular magickal result. VISUALIZE: Kabbalistic tree of life, left hand path, right hand path, and zig-zag vs middle pillar.

On the birth of poly-ego in the internet age:

Monotheism was to the pantheon of gods what mono-psychism or dual psychism (politicks) is to the ego. Mass media, press and TV, offers downward tree structure of selves and top down packaging of personas. Be this, be that. It offers pre-packaged versions of the self for the lazy and impatient and the weak willed. The TV age marked a peak mass propaganda season, where loudspeakers as tree casualties would amplify a limited number of messages and options. Buy A or B or C, but don't go imagining D and E and F. The internet, as an information storage and retrieval mechanism, offers way more fluidity, for the top down approach is void and null. It is micro media as opposed to mass media. A psyche can not but be assembled by self, in accordance to its will, taking off the shelves of the selves. These aspects are bricks to assemble a profile. You can be whatever you want to be but you still have to work at it. Monopsychism, or monolithic psyche, is replaced by liquid selves. VISUALIZE: One choice, 2 choice (monolythic) vs Make your own.

On Mass Media vs Micro Media:

The composition of our psyches is wholly dependent on the technology we use. It is no coincidence that the first book of the presses was the Bible. This was meme propagation with the technology of the time. Note that the word Liber, means both Libre (freedom) and Livre (book) in french while also meaning Libro (book) in spanish. The books of freedom used the printing press to free the psyche. The advent of micro-media online allows for this explosion of

selves. The hierarchy of ideas is now a network construct with peer to peer communication. It doesn't mean that the media is free of propaganda and manipulation, quite the contrary, but that the models of thought and idea on offer are more modular and granular; they are centered around the individual. VISUALIZE: People around a TV VISUALIZE: One person surrounded by many media

On the legions of the psyche. We are Legion:

The legion of the selves are programmed in our DNA and can be expressed in our psyche. Each and every assembly of traits is an aspect oriented operating system for the ego and the persona. The operating system is thus modular and accessible for reprogramming or meta-programming of the self. This key is held by every cult and implemented as brainwashing. Cults like to pretend they give you the key, thereby creating a nice revenue stream and a large dollop of allegiance, but in reality the key is always in the mind. It lays dormant in most, but it is always endogenous. Dis-ingenious magicians will pretend they hold the keys, but they don't. You do. All that is needed for this hacking of the DNA, is the psychic awareness of these multiple archetypes and the discipline to follow through with the rigorous process of self hacking, psychoanalysis, and the reconstruction of psychosynthesis. The meta reprogramming can be done by an external agency, this is brainwashing and propaganda. It can be done in a cult, in front of social media, via search engine filter bubbles, in front of a TV, and can be done by the self under every day conditions. Few people can reach their own meta-programming. It is not easy nor pleasant for it includes a stern psychoanalysis of the self, aka self-loathing. The psyche is legion, it can be whatever you want it to be. Anything is permitted, nothing is forbidden. What is required is a long enchantment with a singular focus. A lifetime dedicated to alchemical work. Closed source monolithic psyche (such as monotheism, or dualistic politics) are an imposition, a straight jacket of psychic scarcity, one that demands submission of the ego to the will of another. As a result it always degenerates into idolatry. VISUALIZE: Alchemist symbolism and man.

On the difference between religion and mysticism:

Mysticism always predates religion. Organized religion is what remains when the flame of mysticism has faded. Every major religion started as a cult, usually of the sex kind for chemical reasons (sex, indulgence or abstinence, is among the fastest ways to meta programming). The difference between religion and mysticism is partially found in their respective approach to consent. Mystical approaches emphasize consent, magick only works with a wilful participation of the operator. Belief, specifically wilful belief, is what separates the mystic from the blindly religious. Magick is in fact born in the very act of consent. The literal "make TO believe" is what creates the magick. Organized religions on the other hand rely on coercion or wilful submission to idols. Religions operate on the opposite of consent. VISUALIZE: Sunday school bored children VISUALIZE: Extasis of mystic.

On Hacking psyche with orgasms, on the neurological difference between magick and science:

Some components of the psyche are universal, generic archetypes; others are private. The private components of the psyche are usually important parts of the magical development of the

self. This is also a reason why the occult is the occult, not because it likes to remain hidden (although it does) but because it represents a neurological reality that is experiential and is true for the individual but not the group. This is perhaps the key difference between occult science and public science. The first is an individual truth, the second universal truth. Occult experiences are ultimately private and personal, neurologically based, like the all important concept of orgasm. Orgasm in magical concepts, leveraged as such in sex magick, for orgasms are rooted in the individuated nervous system, but find resonances with others for they are ultimately shared experiences. It is felt at the level of the individual's body. Certain Earth memes, as those exposed above, call for a Gaia consciousness which works in accordance with the pleasure principle, some people feel the Earth orgasms. True story. Orgasms create a strong AEtheric signature for they create a strong electric signature in the brain (chemical and neurological). Orgasms (or pain) implant memories in the human brains. VISUALIZE: Memory storage under pain/fear (trauma) pleasure/desire.

On programming by fear vs programming by desire. On propaganda vs advertisement: The operating system of the individual can be meta-programmed via the emotions of fear or desire. Fear programming is always a lower level interrupt. Fear will switch the reptilian brain into survival mode. Desire, closely linked to sexual satisfaction, is just as powerful an interrupt of the brain as fear. Programming by emotion is always available. This is an occult psychological key, hiding in plain sight, and used by politicians and marketers. Marketing appeals to the reptilian brain typically using desire. Fear often fuels government political propaganda. Fear and it's opposite polarity, desire, are both effective and occult propaganda often uses both programming channels.

On open source religions, lego ego, and fluid psyche:

Religion vs mysticism is another polarity of our psyche. The marriage of two results in societal constructs. Religion and mysticism diverge in their treatment of will. Religions use coercion and sometimes fear to recruit. Mysticism only works with wilful participation. Giving consent of participation, which one implicitly does through ritual, is a key part of the magick. Witness the early sex cults of Christianity evolving to, and in opposition to, the organized Roman Catholic church. The Roman empire left behind it a religion born out of its persecuted Christian mystics. A self can be freely assembled according to will using cult techniques, usually having to do with sex (repression or indulgence). What mystics discover and experience for themselves, usually as gradual or sudden but always personal illuminations, is encoded by religions and externalized as common mass knowledge. This mass knowledge is meant to proselytize and to evangelize. Whether the target likes it or not is secondary to the churches concern, and in fact, coercion is used. In this bit of psychological knowledge lies a key justification for the crusades of the middle age and the religious extremes of the modern days. By open sourcing our psychic building blocks, by propagating memes freely and willfully, we are meta-programming ourselves. Reality is the battle of rival bands of magicians. This is how we create a zeitgeist, by propagating narratives.

VISUALIZE: Crusades VISUALIZE: Consent VISUALIZE: Roman empire shrinks, Roman Catholicism expands.

On scope of will, individual, group, Earth, solar system:

The will remains present, the individual will as well as the group will. Group will is called zeitgeist and represents the action born out of collective memory or memetic memory. There are also memetic memories which are not of us but of the Earth, and of the sun. These generic components are true of any star/planet system. Each local system encodes a ghostly memory affecting the local communities. The Earth resonances and rhythms influence every living being on the planet. By allowing an open source religion to take operative control, we allow for evolution and modularity of the operating system and its programming. What the internet allows is for a more fluid and diverse meta-programming of the individual and the groups. For example one may define oneself in relation to several groups, hobbies or interests. These groups will overlap. As above so below, what is true of modular open source internet software is also true of our psyches. The modular open source approach to our psyche has been enabled by the explosion of micro media, aka the internet. Earth tech gives us the internet age. The internet is a meme of the Earth. Closed Source monolithic religions are mass media packaging of ego complexes, compilations of traits. Open source religion offers more of a menu, a potential best-of to be selected by the individual. Only a small number will actually go through with the ordeal of self assembly, most will want the convenience of pre-packaged persona consumption. The explosion of the sun in a red giant, is a solar system meme and a solar ELE. It follows, generically, that our will should follow and merge with the will of the solar system in order to survive. VISUALIZE: Individual meme, group meme, Earth meme, solar meme. Four layers of cloud.

On Order vs chaos in evolution, Erisian/discordian current and chaos magic:

The Gaia current is fundamentally Erisian, feminine. Discordian approaches to evolution rely on small contrarian effects and defects that can undo any order. In physics we have seen that the chaotic dynamics emerging from the coupling of the particle and its AEther wake, leads to quantum dynamics. Chaos mathematics and intermittency is what gives us free will. As above so below, the operating system of the self, the integrated psyche, needs to oscillate between order and chaos. Temporary order is what operates our nervous systems, our operating system seems stable in the moment. Like a child, we do not perceive our own growing, the self evolves outside of our time perception. Only a lag of months or years reveal the profound changes taking place. Such is the nature of nonlinear dynamics. This meditation gives you a key as to why keeping a journal is considered a magickal practice. You can perceive change over time. Over the course of a lifetime, the soul is supposed to evolve, learn and change. At least an elite is supposed to. There are periods of chaos or change. These are necessary sacrifices of the temporary present constructs. Nothing is ever final, don't get too comfy in your ways, your wealth, your poverty, your health, your sickness. Nothing lasts forever, todo pasa. No nightmare goes on forever, no dream either. Enjoy the moment. For that is the way of nature, an alternance of chaos and order. As in physics so of psyche, out of chaos comes order and out of order comes chaos. The path is always in flux and this is the back door for free will. Free will at its best is the guiding light between different orders. Free will remains a guiding

component of the psychic reintegration that evolution demands. A psyche that is dormant is a psyche that will rot and die. VISUALIZE: Out of order comes chaos, out of chaos comes order.

On Group causality vs individual free-will:

Mystical approaches either emphasize individual free will (most western religions and mysticism) vs group will (most eastern ones). Underlying mysticism remains a profoundly unique and usually personal approach to reality and illumination. Even group consciousness needs to be experienced at the individual level to not be perceived as group coercion. In this is the basis for magical group activities. The experience seems generic across the universe, meaning that all star systems that spawn life, eventually deal with group and individual memes. Shamanism remains a singular and nervous system centric experience, sometimes aided by trance, ritual, and drugs, all altering the chemistry of the brain. Words usually cannot describe the experience, like reading about orgasm and experiencing multiple and intense orgasms at will are two very different realities. You can read about orgasm or you can experience it, these are two very different experiences. The individual experience remains a gateway to mysticism and a pleasurable and scary one since ancient times. There are also more group based memes that are passed laterally, like mind viruses or aspects of software programming. In fact language is one of those group memes, because a certain map of reality (the linguistic one) is passed onto the child. Linguistic analysis reveals a lot about a people for that is their primary intellectual focus. Money is another group meme, based in linguistic but appealing to the reptilian brain. What is understood and shared is what can be put in words. Group memes depend on shared constructs of which words are the main vehicle. This is why the printing press and the internet are so important as vehicles for the word. Things shared in a collective hallucination, be it religion or money, we call "language" when we externalize it as a map of a shared reality. Some group memes are non-verbal.

On Greek theater:

Greeks understood that the human psyche was built of a certain finite number of character traits and set out to represent them on stage with masks. The theater of the soul and the human condition was first symbolized with externalized masks. Mask magick is understood here as the first externalization of the psyche, a projection and an evocation, in short an external representation, a map, of an internal reality. By assigning ontological reality to the external symbol of the mask, as an extrinsic deity, the initial sin of psychic idolatry was committed. Instead of an internal component of the self, a persona can relinquish control and submit entirely to an external meme. This is indeed idolatry. This externalization of gods, this idolatry eventually leads to, and paves the way to, a consolidation of gods. Why deal with many when linguistics pushes you to one. This falls into monotheism. A one size fits all dimensional psychic profile of dominance and control. What was birthed as a mystic freedom of the psyche degenerates into the dictatorship of monotheism. It is in the multiplicities of self that the operating systems of the future need to build. VISUALIZE: Greek masks and theater.

On modern politics as a dualistic memetic system:

Politics and memes of the early 21st century have largely fallen for a duality trap. Some of it is due to technicalities of how we count votes. Like in physics where quantum forces a dualistic outcome (spin up or down). It is the measure that forces this duality and politics, in the age of the internet, needs to be reformed. Left and Right choices are imposed choices, deriving from the need to tally votes in 2 categories for expediency. Identity politics, with dual identities, is the death of politics. Politics is dead. The act of observing and measuring opinion via delegated party voting, a technical necessity throughout the 20th century, leads to a consolidation of the multiple selves of society. Society allows 2 choices, left or right, because the very act of ballot voting demands a dual outcome. This is reflective of technologies that demand in order to tally a global vote the machines need simple choices. However, if one is to poll the population at any point in time, the territory seems to be a multiplicity of opinions. In the past we just didn't have the technology effectively in place to facilitate more direct reflection of the plurality of ideas. Direct democracy allows for more choices but the current political map requires a dualistic left/right vote where all issues are wrapped in one. This wrapping multi-polar issues into singular packages was done for reasons of technical expediency and certain technological realities of vote counting that preceded the age of the internet and blockchain. In current time, with the internet and blockchain, in some limited cases, blockchain may help facilitate direct democracy. We can today, in some limited cases, have a multi-politics, reflective of multi-selves, with votes tallied on blockchains. VISUALIZE: Blockchain direct voting.

On dualistic politics as the measurement problem:

The measure always impacts reality. Counting votes remains a technological prowess. IBM was born out of the census. Counting people and their data in a large country like the US in the late 18th century led to tabulating, accounting technology that gave us IBM. With the advent of the internet, liquid democracy (non dualistic or monolithic) will soon be the norm. A liquid democracy is a democracy that is reflective of the liquid identity. Just like spins are multiple in the electron and only align to up/down when measured up/down, political options are multiple and only in the party voting are they forced into a dualistic choice. Witness the linguistic traps that these fake constructs lead to and you have a psychic/linguistic key to civil war. It is the same identity trick that underlies fanatical sports. It's linguistic in nature. Gone are the monotheistic days of religions and the dualistic ways of industrial nation politics. The multiple selves are enabled by Earth tech, aka the internet, and will soon demand multiple politics. Switzerland and its direct democracy voting by TV are closer to the Platonic ideal of direct democracy. Forcing an all or nothing vote on issues is a toxic byproduct of 20th century technology (both vote counting and propaganda via mass media). In short the dual political system is obsolete and direct liquid democracy is the next step in Earth evolution. VISUALIZE: Multiple opinions on different topics VISUALIZE: Voting on parties forces a dualistic outcome. VISUALIZE: Linguistic fascism of mass media noise

On direct democracy by Plato in the age of open source blockchain:

Direct democracy is a democracy where the voting is not filtered through a party system. There is no representation. The representation of the wills of the individual does not require intermediacy anymore. Politicians do not tell you what your will is, they are there to implement

the will of the people. Direct democracy as opposed to indirect democracy, has technical ways of tracking the will of the individual. This is a technical point of vote tallying and expressing opinions. What was a necessity, representative democracy, is yielding to poly psyche realities. Dualistic party politics in fact does speak to psychism. Politics today controls the psyche by linguistics extremes and narrative. Managing the public goods should not interfere with identity. Politics should serve the identity and the will, not the other way around. Direct democracy can use blockchain in some limited scales to tally the votes in an open, transparent, and to some degree, even anonymous way in some cases. The elected body politick then implements the will of the people. The expression of this will is arrived at without intermediation of dualistic politics to cast votes. Simply put our machines can deal with more than 2 options on a wide range of topics ranging from food and shelter to healthcare. Education is evolving rapidly and plays a central role in the functioning of a direct democracy. Online access to high level material is a necessity. Dumbing down the messages for the sake of dualistic politics is a local minima. In direct democracy, ballots, to a varying degrees of scale, can be counted on physically or electronically through various means of high security ledgers. Delegation and representation were the technical norms by the 19th century. Dual politics is dead, as dead as the monotheistic god is dead. Meaning not dead at all but shedding it's monolithic skin. The new gods are the ancient fluid gods, the gods of plural selves. And they speak directly to power, their will is power. Indirect representation is not needed in the age of Earth tech. The political class implements the enlightened will, it can follow the will. Not the other way around. Direct democracy is implementation under will, direct representation.

On direct democracy in the current political world, TV implementation:

Aside from Switzerland, the Plato ideal is hard to imagine. In the short term places like China or the United State seem bent on monolithic or dualistic definitions of the psyche. Political identity is a misnomer and is the very definition of a delegated democracy. The will is surrendered to the one or two sizes fits all personas. Comply or get kinetically and physically beat up. A will following an external will is perpetrating idolatry. Direct democracy requires measure of direct will. Do we have ways to tally the will of each individual? The individual also requires continuous education. Only then can we shed identity politics. Direct democracy demands a certain level of education which is in fact attainable at scale. Abandonment of identity politics is an illumination. Identity politics are also the result of mass media. We can advertise propaganda in 2 options on TV channels. The surrender of the will to pre-packaged dual votes, is an obsolete technical limitation in our age of Earth tech. Free men implement direct democracy. The politicians implement this collective will and not the other way around. So be it.

On random selection of operational non-elected body politik:

The notion of an elected and representative body changes in a direct democracy. In the Platonic ideal of direct democracy, politicians work for their people and not the other way around. It is not the will of the politician that is implemented, the myth of the leader fades. The collective will can lead because the collective will is measured and educated. It is the will of the people that an official implements. This subtle distinction, of the causal will at work, turns the whole political narrative on its head. We have had representative democracy in the west for technical reasons.

It is just too complicated to tally every single vote on every single issue. Direct democracy has relatively worked in Switzerland for years because of the small and limited scale size and relative level of education. With open source blockchain we can, in some cases, possibly increase the scale limit. Open source records of proper limited scale can help keep voting clean and clear while also ensuring some degree of anonymity, this boring technical detail having to do with ledgers and accounting is fundamental to our evolution. Direct democracy is when an educated mass can express itself outside of the narrow dualistic approach to politics. Identity politics with left and right polarization are dead and toxic, an obsolete map of a new Earth tech reality. The plurality of selves needs to inform the plurality of issues, without being reduced to parties as dualistic choices. A random selection of politicians can at times help assure that no one has an incentive to strengthen the party narrative, which is in many cases today, the gatekeeper of our political zeitgeist. The map of democratically elected party members is obsolete, let the educated people decide and let, as much is demonstrably practical, randomly selected people implement this enlightened will. VISUALIZE: People choosing from 2 packages; map issues in packages. VISUALIZE: Put issues flat, at times practical place blockchain, vote into blockchain.

On Blockchain as open source records, on ledgers, and accounting:

IBM was born in the late 19th century out of the US census effort. The technology needed to keep track of all the tallies is what birthed I.T. in the first place: we needed to trust the tally of the records. Napoleon institutionalized the government (nation state) issued I.D. with the purpose of raising an army to defend the fledgling French revolution. Trust in public records and auditable records sounds boring but it is one of these things that forms the basis of modern civilization. Blockchain is a new step in this evolution. The open source records can be run by anyone or anything anywhere and when properly implemented there can be trust in the record. As a testimony to proper implementation, as of the time of this writing, the bitcoin blockchain has never been found to have been effectively hacked. Toward this end of ledger record effectiveness when properly implemented, blockchain's first killer app was money. At least in the case of Bitcoin, the general monetary populace trust the accounts in the Bitcoin blockchain to represent money and no government, corporation, or individual(s) has been publicly found able to hack the blockchain's ledger accuracy. These records are open source and supra-national and cases of adoption are soon to represent identity, voting, healthcare, and banking data. We have the technology for direct democracy and a revolution in how we conduct our politics.

VISUALIZE: Bitcoin Blockchain ledger has never been found hacked. Trust in record.

On free software vs Open Source software:

Open Source as a process of software development is what has given us the internet. Most of the internet runs on open source software. In turn the internet is what made the open source software movement possible for many people around the world who could collaborate on a common body of code. There is a subtle distinction between free software and open source, namely free software demands sharing alike. The software cannot be closed. This ensures that the software remains free on the internet, separated from commercial or government interest.



The internet software is free software. Free men use free software. The trust in the records need not be delegated to governments, or corporations, but to a peer to peer, open source network of free men. This is about freedom as well as free of cost. As above so below, when software makes it into the human body, such as in the case of heart pacemakers, we want free software for free men. Do not give the rights of your body to corporations or governments, you are in charge of your body. VISUALIZE: Internet free software VISUALIZE: Free software and free men.

On free data and ownership of records, blockchain:

Free men also own their data. The fact that the infrastructure is open source doesn't mean the data belongs to everyone, quite the contrary. Free software (as opposed to open source) is what guarantees that no corporation or government owns your software and your data. In the US, for example, the fact medical data is not the property of the individual but the property of a monopolistic software provider is an affront to the gods. Likewise in Europe and Asia, the government owns your data. Your medical data is your medical data. The individual free man owns his own keys and his own data. Free men need free software, free pizza, free beer and free data. Free here is freedom, for the data it would not be free as in free pizza (even though you shall have free pizza). Blockchain open source ledgers, properly implemented and at proper scale, can at times be useful for this. VISUALIZE: Government and corporations own your medical data. VISUALIZE: Free men and free data.

On Local vs Global politics, on the scale of political action:

In politics, the public goods are administered at various geographical scales. Getting people to agree, even between neighbors, is difficult at any layer of granularity. As above so below, what is true of neighbors is true of geopolitics. Two people is enough to trigger a conspiracy and disagreement. A conspiracy of two without internal division will rule the world. Political implementation will always involve a large degree of disagreement and coercion (things done against your individual will) almost by definition of the plurality of opinions and the singularity of implementation at scale. Political action needs to be local, almost by definition, for what you want for yourself is not true of what the neighbor wants. How you want your roads, your schools, your healthcare and your public domains is a local matter, just like sexual preferences are a matter of the individual. One size fits all goes against the liquid psyches, find your tribe. Global politics does exist, for example responses to pandemics, issues of Earth tech (abundance, climate cycles, monetary policy, migrations, and end of wars). There are global imperatives, Earth tech and the solar system tech. Politics, as a human institution, needs to follow the acquisition of these. VISUALIZE: Layers of political action from the personal to the Earthly.

On money as magick:

Money is the biggest trick the magicians ever pulled. As a meme it is entirely viral and has imprinted almost every single brain on Earth at a deep level. Money is a root program, possibly as deep as the sex and food programs, for indeed, when dealing with the world dominant congregants of money, it typically brokers access to both. Like water, money wants to accumulate in stores and at the same time also wants to flow. Stock and flow are polarities of

money, accumulate it but don't hoard it, spend it but don't waste it. Since at least the earliest known civilization of Sumeria, money has held as a major god and wants to be treated as such. The proper management of money and personal relationship to money are balancing acts of the psyche. Money that is saved, as capital, is virtuous and that money wants to be invested. Money that is hoarded, stagnant, and HODL (meaning simply held as a cumulative asset in and of itself) is money that will rot, just like stagnant water. Money in her feminine aspects wants and needs to be saved and wisely invested, on the self and those around you. Money in its masculine aspect wants to project progress and movement. Money represents a major force. It can direct our evolution according to will.

On abundance and scarcity as polarities and context for money:

For monetary economies, money intermediates food, shelter, and sex. This use of money comes from the scarcity mindset. It assumes we live in scarcity of food, shelter and sex. Before Earth tech and Earth abundance, such resource scarcity relative to the collective morality used to be true. We now live in resource abundance, of food, of shelter, of sex, and subsequently money and relationship to it changes shape. Money is a shapeshifter, for it is like water. Money is now a guaranteed income, printed in QE (Quantitative Easing aka creating new money out of thin air), brokering access to the resource abundance. It intermediates access to food and shelter at a minimum. Oh and watch what happens to the sex part, when food and shelter are non-issues for the female polarity. In the age of abundance, money either becomes an obsolete map, or changes shape and becomes a right. We have seen this demonetization of markets in open source software and the many industries disintermediated by the internet. It is not clear that money, understood today as work for hire or wage slavery, is indeed needed in the age of abundance. We have seen the demonetization of several industries, software and music at first, then education, retail, hospitality, transport, with the internet. There is a certain irony in the fact that blockchain technology was first applied to money, as in Bitcoin, in reaction to Central Banking QE. Invest money wisely and it will grow for you. Insult money or restricting it's potential by not using QE or by gambling it away and it will surely leave. Don't miss out! VISUALIZE: Scarcity and money wars of scarcity VISUALIZE: Abundance and money as a gate

On the end of wage slavery:

Money is a major god. Treat it as such. Imagine, you are an alien, and visit Earth and see the Americans tending textile fields. You think to yourself "way to go Earthlings" but upon closer inspection realize that slavery is involved. This slavery is accompanied by a kinetic threat: work or you die by force. Fast forward to today, the slaves in the fields have largely been replaced by machines and you see textiles everywhere, both online and in retail stores around the world, and yet an army of modern slaves is still scrambling to work for the money. Work for money or you die by hunger. Money is what gets the textiles from textile producers to the stores because money is what motivates the producers to make them, because without money we do not eat and we do not sleep, or do we? This relationship to money is one of a scarcity mindset and wage slavery. It is a sweet, even voluntary form of slavery, for a large part of the population. For the poorest working two of those modern slave jobs for minimum wage, it is scary coercion. In the age of abundance the perception of money changes. Busy minimum wage work is not

necessary for a large part of the population. The work for hire or wage slavery map is obsolete, psychically violent, and dangerous. Soon we will have a jubilee, the machines do the work. End wage slavery. VISUALIZE: American slaves picking cotton. Modern service industry wage slaves going to buy clothing

On the true work, the alchemical work:

The end of wage slavery will bring about a new era of meaningful work. Work is not obsolete and remains a key part of magickal development. When everyone is insured a minimum of food and shelter, those that want and can answer the call to work do work. Not busy work, not slave work, but a voluntary work, indeed magickal alchemical work, for a wilful elite. It has always been so in the magickal orders, including scientific illuminism. A small elite was always responsible for the advancements of mankind. Now that factories and agribusiness is automated, the masses need not slave away, and they are free to become part of the elite on their own volition. For the sake of magic and the arts, the elite should by all means work. What irony, slaves are freed, no more wage slavery, and work is reserved for a wilful elite. For the most part, the masses stay at home and enjoy each other. No need for coercive slavery to pursue Earth tech, solar system tech, and star tech, just the wilful contribution of the elite. VISUALIZE: Alchemical work of Newton

On money and evolution:

Money can be good, but evil stems from the love of money. The worship of money is idolatry; it is the idolatry of money that is evil. Money for its own sake; the placement of the individual's actionable will under money, is a linguistic virus where the wilful self enslaves itself to a concept. This, again, is idolatry. The idea money buys one everything and anything, including sex and happiness, and as such is treated like an idol. While money is a major god, it doesn't want idolatry, it wants to be used. Money under will. As an externalized symbolic meme. The spirit of money is feminine, to care for self and others, it's body is masculine, to project will and force. Money has cycles, as a feminine spirit, such as the Minsky cycle of debt, which no one really understands and yet are utterly predictable in their biblical cyclicity. The Bible encodes a 50 years debt jubilee, the Minsky cycle a 50 years reset. In between we have the very mathematical definition of an exponentially growing symbol by the very presence of debt. Mathematically debt grows by interest and as a percentage of the whole.  $dS=kS$  (derivative of S as proportion of S say 5%) is the very mathematical definition of an exponential. It is the love of money, the empty idolatry, that leads to evil. Money for its own sake is a mean and controlling patriarchal construct, this includes wage slavery. Money supports the higher philosophical truths of Earth-Tech, Star-System-Tech and Star-Tech when it finances their development. Money is evil when it finances waste on Earth. As such our destiny is to 1/ ride the planet 2/ ride the solar system 3/ ride the stars. We will become dark matter, money is just a way to provide finance toward the development of these technologies. Money has appeared, as a societal contract, during expansion and acquisition of technology. Money, and particularly the modern free printing of it, has enabled the attainment of our current point of technology, and thus wealth, ever since the end of Bretton Woods. Money wants to bring about Earth tech dominion. Money can transcend and indeed survive the wage slavery era. The specialization

of work which is so important for progress to occur is enabled by money. It motivates the elites. Work for money will die, Money as guaranteed income may represent a fair share of abundance for everyone. VISUALIZE: Monkeys' beating each other VISUALIZE: Monkeys exchanging one on one VISUALIZE: Monkeys around a market exchanging bananas

On abundance vs scarcity as measured per individual; On Earth limits and population control: The notion of abundance vs scarcity is experienced at the level of an individual. A billion souls today live better than kings, cult leaders, and pharaohs of yesteryear. A 100 billion could live in shared squalor on a devastated Earth. Population control is dependent on the yield of the Earth. The yield of the Earth is dependent on Earth tech. Think about agribusiness, IOT machines remotely controlled and the supply chain that delivers the food. A planet must live under the limit of yield or die. There is no other option. These are not easy decisions, but they are necessary decisions for any sentient being. What that number is depends on Earth tech and the climate. It could be half billion, 10 billion, or 100 billion, we don't know yet for we don't know where the Earth tech will take us. In any case the key is in reproduction control, once a soul is born, treat it excellently on the host planet. Do not apply undue stress on its psyche by lack of food and shelter. Take care of the living, just limit the number of the living to whatever the planet will support at any given time, depending on tech, and the whims of the gods of climate. May your harvest be plenty and your famines eradicated. Grow your planet to its limit but don't break it.

On money and growth vs Earth waste:

Money should be printed until the consumption of food and shelter reaches the natural limits of the host planet. Money printed too slow is technology we don't develop. Money printed too fast is resources of the planet that we waste on silly pursuits. Do not waste, but do not sit still. Temperance in growth is the key. VISUALIZE: Too little money; Too much money

On money group collaboration:

Since at least the time of Sumeria, civilization has lived in a monetary world. Money has made the civilized world go round. The irony is that money motivating the individual, a religious coercion, is what enables the group to function. Technology as a discipline is the collaboration of many specialized individuals; motivating these individuals via materialism is what money achieves. This can be a good thing, for it spurs technological growth. Trade secrets are among the most prized body of knowledge on Earth. The practice by individuals, meaning the embodiment of knowledge in a human, is the most effective body of knowledge. For knowledge that is not alive in a human being is knowledge that is barren of fruits. Think of a plane, or a supercomputer cloud cluster, or the sewers, it's the humans in charge that give them meaning. The specialization of work is a necessary condition for the technological progress of civilization. Money makes disparate groups work together without kinetic violence. Wage slavery maintains the illusion of an opt-in. The future is the abolishment of wage slavery and a wilful opt-in to work for the elites that can and want to contribute to the acquisition of Earth Tech. This is real alchemical work. Since group collaboration seems necessary at some point, either slavery does the physical punishment or a more subtle form of control does, say money. Money exploits the

rewards and punishment pathways of the nervous system and is a major meme of the psyche as a result. It is this feature that many consider good in money: that money makes the world go round. Just like when Plantation owners enslaved other Americans for textiles, but without the Plantation enslaving the other Americans part. It is the idolatry of money that perverts the individual psyche and disintegrates the group. VISUALIZE: Money in a group

On wealth and the individual, On creativity and work:

Creativity of the individual as well as specialization of the brain, demands an individual reward system. The work is work. Incentives of the elite individuals need to be acknowledged within the larger group dynamics. Men are not born equal, never were. They are not equal in looks, brains, socio-economic status, empathy, psychic ability, or athletic performance. They just aren't. It remains always and everywhere true that civilizations spawn and depend on an elite. The needs of the masses are important and we will touch upon them later. Ignoring the needs, or training and incentives for this elite is usually a death sentence for any civilized society. Just like the fetishism of an unfair elite, say nepotism, is a death sentence of the psyche of worthy individuals. The balance then is catering both to the needs of the individual elites as well as the needs of the mass and the group. In this false dichotomy, not elite vs mass, or capital vs work, do we find a key for most of the travails of the 20th century, with false dual politics. Just as important as the elite are the basic needs and well being of the masses: guaranteeing food and shelter in the age of abundance is a start. The advanced needs of the elite are around work and self expression: advancement in the arts, tech, medicine, sports, or really any human endeavor is always the product of an individuated elite. Breeding an elite and giving it incentives (such as more material wealth relative to others) is as important towards the acquisition of star tech as the well being of the masses. In fact most elites will come from the masses given proper access to education, training, and advancement. The spoils of the tech, developed by the elite, the fruits of technology is Earth abundance. Abundance needs to be distributed to the masses. VISUALIZE: Newton alchemy, monk. Picasso.

On the existing abundance:

Think of computers and the internet. Think of the cell phone in your hand. Think of the food we waste, about 30% of food is discarded from retail. Think of the fact that we have more empty houses, for speculation, than we have homeless. Money today, in the scarcity mindset, is a restricting factor to accessing abundance. Money also is a construct that allows for extreme incentives at the individual level while also advancing the goals of the group. Money can gate waste, for most individuals would bury themselves in luxurious materialism until they become obese in their bodies and malnourished in their souls. Individual wealth and property help motivate the work of individuals advancing science, industry, arts, sports and tech. Idolatry of money or idolatry of the elites (i.e. celebrity phenomenon) is empty and without substance. Arts for example don't depend on this idolatry of the elites. Abundance demands anonymity of the elites as well as the individual and the masses. Also a lot of well being for the modern soul is the direct result of such technological illuminism. The work, in the age of abundance, is not towards materialism but towards the advancement of the self, in what we call self actualization, in pursuit of technology, Earth tech and star tech. The fruits of technology, usually unlocked by

the few magicians, are plenty and for everyone to enjoy. Abundance is unlocked by the few and it's spoils are enjoyed by the many. VISUALIZE: A few people develop the internet, many enjoy it, VISUALIZE: Inverted pyramid.

On republicanism, on equal opportunity, on public education:

Men are not born equal, never were and never will. As much as it rubs some people the wrong way, inequality of talent is ingrained. Jealousy is not a policy. Men are not even equal as they develop either. Some talented individuals do not progress and become lazy, some at first average people arrive at genius results by work, discipline, and dedication. Any civilized political system that ignores the fact that an elite needs to be bred, is bound to stagnation, eventual decay, and social resentment. Any political system that ignores the needs of the mass is also bound to stagnation, eventual decay, and social resentment. Temperance in the balance of individual vs mass needs is the key to success. Fairness of opportunity is important for a society and part of this balance. A civilized society which lacks opportunity for self advancement will lead to stagnation and resentment of the elite. A society which lacks protection for the masses will lead to stagnation and resentment of the masses. A society of peers, with social advancement, a form of self meritocracy, as well as social protections, seems to be a desirable, stable while dynamic and adaptable societal construct. For this to be sustainable, opportunities for the masses need to be equally shared, this means food, shelter, education, healthcare and entertainment. We are reaching, or already are, in abundance in all these domains. You too can be a millionaire. From each according to their capacity. Some can run 100m in under 10seconds and some are confined to a wheelchair. Some in the wheelchair can dream black hole physics while others can play instruments like virtuosos. To ensure this outcome, the best individuals need to be identified and groomed. Perhaps online with the help of A.I. and A.I. curriculums.

On higher education in the age of the internet:

Higher education is rapidly evolving. Some of the most valuable brands on Earth belong to academia, think of Harvard, MIT, Oxford and La Sorbonne. The value of these institutions was to provide a space where higher learning could be dispensed. It was the campuses where elite professors could pass on the knowledge. The internet makes access to this knowledge one click accessible. The value is not the curriculum but the mentoring and tutoring and this is harder to scale. Another value is in ensuring that the material is seen and assimilated. Testing is not so much for its own elitist sake but more to ensure the proper training of the masses. This is how the masses become the elite. The challenge of branded higher education is to slash costs by 10x while multiplying attendance by 100x. We can then train masses of elite products and assure continuity as well as rapid expansion of technology and knowledge. VISUALIZE: Numerous clausus false elite at physical Harvard VISUALIZE: Unlimited real elite at MIT online. VISUALIZE: The Harvard bridge leading to MIT, the first time I heard about the internet in October 1993.

On the wealth of nations, Earth. On abundance as a meme of the Earth. On Earth tech:

We can redefine the wealth of nations. Nations remain relevant as local identity constructs and scope of political action. Linguistics remains a deep programming of national identity. Nation states, however, are increasingly obsolete. One nation: Earth. Earth tech's first psychic meme is the Internet. Abundance of information and education ensues. The physical (body mass) wealth of the Earth is a derivative of the energy it first captures from the sun. Our human creativity is what transforms this biomass into Earth tech. The biomass makes our food, plants, and largely housing. Our capacity to harvest, consume and modify, the bounty of the Earth is our true wealth and underlies sustained well being on Earth. The wealth of the Earth, abundance, is also its own survival as Gaia/RA needs a champion. Congratulations, the monkeys have made it to abundance. The prize for Earth tech is abundance, you have immanentized the eschaton. Abundance for the monkeys. The first wealth is the sum of ideas and philosophies. We are custodians of technological savoir faire, custodians of Earth tech, custodians of Earth. The material wealth on Earth, in food and shelter, is a byproduct of Earth tech. Nature revels in us and itself gives us power to ride with her. Electricity, telecommunications, the internet, all abundant spoils for us to enjoy. The ideas, the philosophies, the mysticism, the arts, the reductions to practice are all our collective wealth. This body of knowledge is alive in human brains. The continuity of knowledge is assured by the presence of the internet and the access of all to its resources. Brains need to engage this reality to keep it alive. Knowledge that is not made manifest in a body and a brain is knowledge that is dormant. Implementation of the knowledge in working brains is a necessary step. Open sourcing the knowledge for the species is a way to make sure it is easily implemented by anyone without artificial restrictions. The Earth is wealthy because it has illuminated humans. It is the role of these illuminated souls to take care of the Earth in return. One nation: Earth, one destination: the stars. Abundance is the first meme of Earth tech. VISUALIZE: On wealth as philosophies and savoir faire VISUALIZE: Dead knowledge in computers. VISUALIZE: Alive knowledge in a human operator.

On the historical need for nations states:

Nation states were an evolutionary step of the democratic revolutions. From feudal systems, bloody revolutions gave birth to nation-states. Nation-states had linguistic and geographic boundaries but mostly militaristic boundaries. How big was the Roman empire? As big as they could maintain it with military presence. Nation states survived and developed a dualistic body politic to chart their course. The dualistic nature of the politic is on historical display and a byproduct of the available technology. Vote counting required a simplification of expression hence the dual choices and dual party structure. What to say of the shameful spectacle of the 20th century brainwashing propaganda, the world wars, atomic bombs dropped on each other, the world wars, the extermination camps, the carpet bombing, the world wars, the political inference and campaigns and the hell implemented on Earth all in the name of some obsolete lunatic linguistic dualistic ideology aka: the world wars. Much fury signifying nothing. When words are used to create misery is when the map is obsolete. Nation states are obsolete. Nationalism is a local linguistic construct and a line on a physical map. The Earth does not understand the notion of nations. Nations are lines on a map and some linguistic barriers. One nation: Earth, one destination: the stars So much blood has been spilled in the name of

linguistic dualities, be it the crusaders of Christianity, or the world wars and modern psychically active left/right politics. Surely the children of the 25th century will come to view the history of the 20th with the same disgust, disbelief, dismay, and horror as children of the 20th see the plagues of the 15th century. Consider duality as a linguistic trap and the absurd and bloody path of history becomes understandable and tolerable. Us vs them is a normal neurological pathway. We are digestive tubes eating other digestive tubes. As we evolve from life forms whose sole physical activity is as a digestive tube eating other digestive tubes, the fear/reward neurological pathway evolves from the bare survival layer. This cellular level of consciousness is violent by necessity. VISUALIZE: Bumbling accident of history VISUALIZE: Atom bomb VISUALIZE: Normandy VISUALIZE: Someone you don't know in a battle you don't care about with a tomb that doesn't mean anything, martyrdom

On nation state being obsolete in an Earth tech area:

Earth tech includes Earth consciousness and abundance and peace on Earth. Nation States, at first a reaction against said institutionalized violence and slavery, ended up pursuing the same absurd linguistic categorical traps. Dualistic politics, and the linguistic extremes thereof, became the new categories to fit personalities in, just like dualistic religions, and the extremes thereof, led to countless bloodshed and still occupies much of our violent interactions in the online zeitgeist. Nation States, as legal and operative entities, may have a more permanent role to play in local politics and how one conducts business in everyday life. As identity labels, patriotism and nationalism are about as interesting as rooting for your favorite local football team. This, like your favorite sexual practices, is totally something you should indulge in, but hidden away in your private life. No one cares. Nationalistic politics is dead, as a societal meme and identity mode, just like god, the monotheist meme, is dead. Both were valuable, even positive while they served their historical purpose, as mental constructs (maps) they were useful for a while. Identity politics and nationalism have become dangerously toxic and obsolete in the age of abundance. As they lose relevance these concepts will test their absurd linguistic, identity, militaristic, and fanatic extremes. VISUALIZE: Nation states of Europe

On History as the fumbling of chaos:

The study of history is first and foremost a magical activity. It is a re-interpretation of past facts by those who read and write it with the intent of modifying the future. History is malleable. The causal reinterpretation of the chain of events is what in magic is understood as retro-active enchantment. A particular narrative laid out by a particular group. One cannot change the series of events but can change the understanding of a series of causal events. History so far has proved chaotic and bloody, fumbling about. The trend is one of psychic advancement, progress, and consciousness awakening from the low cell movements, on to the digestive tubes eating other digestive tubes, the development of barbarian society on to the Romans, to the war and peace of modern democracies, and on to what will come next. Peace in our times is an emergent reality. Peace and abundance on Earth are the markers of Eschaton. Earth tech is immanentizing the eschaton. The psychological operating system eschews lower level programming of dominance and aggression for more abundance centered memes. We replace the scarcity mindset by the abundance mindset. Advancement does not include dropping an



atom bomb on the other monkey. The sorry spectacle of humanity can be rewritten, in a positive way, as the way for us to learn as an evolutionary narrative, fall and crawl before you walk. We are reaching abundance, we are reaching the end of prehistory, we are reaching peace on Earth, we are immanentizing the eschaton. These are but the first steps as star riders. Each atrocity is a fading memory, each mausoleum, a silly testimony to names and dates that have little meaning but for those that would use them to manipulate consciousness. These are times passed when putting each other in concentration camps and dropping atom bombs was deemed a survivalist necessity. The damage due to the obsolete linguistic map of nation states and dualistic politics is as much a stain on our record as the religious wars. Maps always evolve and the psychic territory grows. History evolves, our sense of reality evolves, our magickal powers evolve. VISUALIZE: Crusades VISUALIZE: Atom bomb

On History as the acquisition of new technology:

History remains and accumulates in the acquisition of new technology. Most eras are identified by the technological development of their day. Whether we are talking ledgers for Romans, aqueducts, or farming, or religion as social engineering, the renaissance and the printing press, or as the machine industrial revolution, the train, the airplane, modern telecommunication and the modern warping of our current psychology by the internet. Each period of time is defined by its technological advancement. It should be noted that politics follow these technical breakthroughs and the abundance they unlock; not the other way around. For example democracies were really due to the advancement of the Bourgeoisie seeking social and political power. Politics are always products of economic revolutions, typically driven via technology, and not the other way around. Feudalism came from the agrarian and military revolution, democracy from the industrial revolution. Today we have the internet revolution. The accretion of philosophical and technical knowledge is our true wealth. We will one day possess Earth technology and soon solar system technology and star technology, but first, Earth tech and Earth abundance. Most of the atrocities committed in recent 20th century wars were the byproduct of technology leading without wisdom. One of the first things we did with atom tech is drop a bomb on the other monkey, this historical record is what it is. The next step includes peace in our time, abundance, and a techno civilization that can aim for Earth dominion, as custodians, conquerors, and finally star riders. Earth is first served by our technology, not the other way around, a destruction of the birth planet by technological means is a sad dead-end for any sentient being. Sort of a nonsensical cul de sac of history. Do better monkeys. VISUALIZE: Earth abundance

On the Illuminated souls of the species:

History, when read from afar, does look like a conspiracy. That of illumination and scientific illuminism. This seems generic to the universe. The illuminati are dark matter. The path traces back to early magical experiences, or shamanism, the first organized sex cults and religions, the birth of gnostic mysticism, and philosophy, all the way up to modern scientific illuminism, democratic nation states, and today the internet. Occultism is alive, particle physicists and condensed matter theorists are the new alchemists. Today the psychic magicians are on social media, hacking away at consensus reality. We know how to transmute anything into gold, you

just need a star, this is star tech, transmutation of elements is star tech. Illumination is a process, a continuous refining of the soul and its prized fruits are science, technology, finance, arts, money, and modern day occultism and many others. Modern day exponents of magick hide in plain sight and bring about the immanentization of the eschaton. Rival bands of psychic online programmers, exchange memes, and are pushing the psychic envelope of our consensual reality. It takes a few of these souls. They are the light bearers. This is true of mathematics, physics and religion. VISUALIZE: Every atom around you was birthed in an exploding star.

On sex as a magical occult key:

The memetic storages of the Aether, what we sometimes call ghosts, are accessible to trance operators. The access to the Akasha is in read and write mode. Establishing trance, via inhibitory or excitatory pathways, allows the brain to read and write to the fabric of space. The key is to silence the electrical signatures of the brain so that the morphic resonances of space can couple in QM mode to the brain. The EM signature of monk's brains shows their vibrations going down in frequency. Trance is sometimes a longer wavelength. Slow and steady as opposed to fast and jerky. It should be noted that sex trance is both of inhibitory and excitatory nature. The tantric practices arrive at the same result in the more modern magickal approaches. The use of gender polarity and its expression of sexual energy is a force that has been used by every cult on Earth for programming and brainwashing purposes. It is the fastest way to unlock the inner magickal keys to brain chemistry. The Christian cults were at first sex cults, of the orgiastic kind before the religious arms practiced abstinence. Sexual energy is a fast track to hack the source code of our operating systems. The sexual energy allows for a fast rewiring of the brain at a chemical level. Illumination, as a process, uses this key. Just like money isn't evil but the idolatry of money is, it is not lust that is the sin, but the idolatry of sex without application to higher self. This then is a chemical key that sets the brain off in a malleable state, a state of synthesis and analysis. VISUALIZE: Sex cults brainwashing

On Psychoanalysis and sex magick:

Psychoanalysis is the institutionalized deconstruction of the ego with wilful reconstruction of personae. This magical inner alchemy results in the actual control of chemical composition in the brain as well as a rewriting of how these chemicals feel in the brain. You control your emotions. This inner alchemy is a necessary step to outer alchemy, or in other words, the control of your surroundings leading on to Earth tech and star tech. Dominion of the nervous system and wilful manipulation of the electrical limbic emitters and receptors are magical keys. They happen to be profoundly pleasurable, as understood and magically mapped since ancient Egypt. There are pathways of the DNA that lead to endogenous pleasure, beyond the sexual orgasm, and the wilful neurological discharges are unlocked by operating adepts. Adepts of the race will always emerge, much to the chagrin of the jealous ones. The collective fate depends on the nurturing of these seers. Oxytocin, dopamine, and serotonin are the chemical keys. Endogenous DMT and dopamine (heroin) are the keys and rewards. The natural pathways to these compounds are superior and safer to the artificial ones (opioid addiction, smoked DMT).

Sexual trance is a fast way to unlock them. Sex magick adepts that fail to understand this become addicts. VISUALIZE: Body irradiation EM

On the need for social stability:

Social stability for the masses is as important a focus as the nurturing of the elites, in fact they go hand in hand. Today most people say 50% of the Earth population live in better conditions than a king of medieval Europe. Health, sanitation, food, shelter, education, transportation, access to knowledge, tools, arts, entertainment, everything seems to be growing exponentially. Our happiness needs to follow suit. Abundance has been unlocked. We are reaching the first Earth tech meme of abundance. Abundance of food and abundance of shelter, abundance of education, abundance of healthcare, abundance of music and video games and movies, abundance of everything mother Earth has to offer and the humans have to do. Just like the elites exist, as contrast,  $\frac{2}{3}$  of the population need not exert themselves, they just need to live and be excellent to each other. That's it, just party on. Just be excellent, to you and each other. Take care of yourself and each other, the young and the elder, in that order. The future is bright. For these masses, a minimum of food and shelter, a guaranteed income to guarantee access. This will allow for a peaceful transition from the age of scarcity to the age of abundance. If civil unrest is to be avoided, food and shelter need to be distributed for they are in fact abundant. No specie ever went extinct next to abundance. We are at Earth abundance but the wage slave map leads to misery and the paradox of scarcity in the age of abundance. Abundance is automated by machines, machines do the work, our tech does the work, our supply chains do the work. The humans that make it possible and make it work (theory and practice) need to be rewarded. The fruits of this technology, our current abundance, needs to be shared by the masses. This point, a social one, is not in contradiction with the existence of elites. It is quite the opposite, the masses need the elites and vice versa. Some people contribute more, are more ambitious, good looking, better read, more creative, more athletic, more musical, more empathic, more curious, work more, are more disciplined etc etc. These elite should socially feel advanced from the masses who do not exhibit any of these traits for there remains a profoundly human need for self advancement. Self advancement does not mean other peoples regression, which is why the two goals of a happy and productive elite, as well as a content and peaceful social mass are not incompatible, in fact they may both be sine qua non conditions of each other's existence. Mobility from the mass to the elite (however it is manifested) needs to be fluid. The promise and fruits of self-advancement needs to be alive for an individual to thrive within a group. Abundance in the future may depend on both mass social contentment breeding an elite. VISUALIZE: Inverted pyramid, tech and science, and agriculture supporting a large triangle

On Immanentizing the eschaton:

Immanentizing the eschaton, or the manifestation of paradise on Earth, is within our reach. The biblical construct is nowadays possible and within reach. The opposite, the end days, loom large. The end days are the default scenario. The crocodile by himself will die with the solar ELE. If we do nothing the star explodes. Cosmological data suggests 30% of the matter in the universe is dark matter and is collocated with visible matter. Dark matter is composed of

advanced civilizations that are already star riders, their stealth photon signature but a side product of their technology. Dark matter is star tech civilizations controlling the photons of their star. So the odds of making it are actually a generous 30%. On Earth, we are in the first stages of Earth tech, Gaia dominion. We are still wrestling with the basics of what to do with abundance and we will end wage slavery. We have enough technology to take care of our spaceship, our people and soon conquer the solar system. The biblical Eschaton is but the first stage of Earth tech, where we enact and manifest paradise on Earth. Gaia is our domain, Gaia is our mother ship. One Nation Earth, one destination, the stars. VISUALIZE: Earth Ship

On History as documentation of malignant forms of control:

The philosophical first goals of planet-tech, star-system-tech and star-tech are both generic and universal. Every sentient being goes through these geographically local steps (Planet, system, star). Every star system that made it to dark matter first developed planetary tech then star system tech and then star tech. Transposed to us, the steps are the survival of mother Earth, the dominion and harvesting of the solar system and finally the dominion of the star RA. These are the achievements for us to unlock. Each sentient being in each star system arrives at the same conclusion and has to follow the same stages of development. Our political approach to this advancement and the establishment of order via violent ways may not be unique to our planet, but they may not be universal either. It may not be the only way. We just don't know. On Earth violent forms of control have been the historical norm. What to say about the crusades and the world wars. Religion and politics as the main narrative thread of history work until they don't, they degenerate in indoctrination. Why do we care about names and dates and events of the past, why such and such died, on this and that date, in this and that place? These are meaningless scraps of data, violent traumas that are meant to heal with time and certainly should fade from memory as the absurd linguistic violence we perpetrated on our own specie. What was at first a beneficial development (Nation States) led to malignant forms of control, coercive and violent psyches, erupting in the horrors of WWII, both the concentration camps and the atom bomb used on humans. One theme seems to be the pathological need for psychic harm, either physical or symbolic, what we call the satanic forces of control (as opposed to the luci-ferian influences of illuminism). The Eschaton includes and requires peace on Earth and abundance for its inhabitants. Both are memes of Earth tech. The violent psychological traits of our history may not be universal or even that dominant, it is our default mode of operation on Earth as we evolve from mud to animals eating each other. We remain profoundly animalistic, even brutalistic behind a thin veneer of civilization. Our psyches are rapidly evolving with meme tech but history remains a stern warning as the fragility of these constructs.

VISUALIZE: Tomb with epitaph: bla bla bla

On cabals:

Cabals and occult conspiracies operate on the energy of a few highly aligned adepts, both dead and alive. The individual nature guarantees a splintering of conspiracies with inner conspiracies, in a blackhole of egos. Many modern cults seem to degenerate into this absurd tower of babel ego splintering, like many scientific theories do not exist beyond the one scientist who birthed them. A cabal is simply 2 or more people without internal division. Any real cabal will dominate

it's material surroundings, up to the stars, this book is a cabal. Religions on the other hand, specifically the death cults within, will grow armies of soldiers, coerced. They will submit, willingly, to a group will. Their force is in their numbers. This is where the more nefarious traits of modern politics are expressed, in the psychic tendency to want to conform a mass to an idealized group zeitgeist, no matter how nonsensical the zeitgeist. Embracing nonsense is an occult test, a proof of mental purity, a form of linguistic coercion, and a form of mental fascism. It is true of cults, politics, fan clubs, the military, and any order that wants you to submit. The belief follows the action. It is also effective and the numbers will always grow. The plurality of selves is the basis for an operating system of the individual psyche of the mystics, the masses can be stunted in more narrow profiles. One can develop a personalized mystical approach, psychoanalysis, or black magick will do, or one can adapt a ready made, one size fit all, vanilla identity. Most are advised to do the latter and the latter are marketed as cool and extreme even though they are just another form of submission. Mystics will always precede and eventually find themselves in opposition to the very cultures they come from and religions that they spawn. VISUALIZE: Hazing VISUALIZE: It only takes 2 people to change the world.

On creative chaos as luciferic, light bearer. On Lux-fare vs Satan:

Lucifer, or the light bearer is a chaotic creative force. It is different from Satan, Christ and Jehovic currents as archetypes. The names of ISIS, or Mary, Kali, represent the female, Earth part of this luciferian consciousness. Lux fare, the ones who give light. The Kali current is one of creation by destruction, not necessarily chaotic destruction. A pandemic can be such a catalyst for change. First a clean slate, a decomposition of the inner landscapes in order to rebuild oneself and the society about one. Creative chaos is close to the butterfly effect. This is not the old testament chaos with everything falling apart as Godzilla and plagues roam the land, even if it can feel like that at times. The kind of chaos we consider here is the tiny changes that bring about an epochal transformation, a virus bringing about post-capitalism, a change of point of view, a change in operating system, a change in zeitgeist. Zeitgeist change is in this case the result of a synthesis; of new ideas after the death of the old maps. This is magick: the creation of new memes and zeitgeist; the assembly of psychic operating systems. This death and rebirth cycle, so important in Christian inner mysticism is also central to the process of evolution. At the cosmic level, think of the fact that a star needs to explode to synthesize all the atoms around you. Sacrifice is a necessary step everywhere in nature, where we can shed old interpretations and states of beings, like a snake slowly changes outer skin. The light bearer, the bringer of knowledge, is also the bringer of undoing and change. It is necessarily seen as temporary evil by the forces of inertia, which resist said change. This is by tautology. Inertia resists change, always and everywhere. The psyche never dies, it transforms as a reintegrated psyche after psycho analysis. It is this wilful act of individuation that is in itself an act of magick. VISUALIZE: Exploding star, creation of elements, birth of life somewhere else

On magical conspiracies:

As far as conspiracies and cabal go, we can safely declare that the real conspiracies are of the discordian type. Small cabals of highly aligned adepts is more than enough to define reality and sustain ontological transformations. Zeitgeist war is the warring of opposing bands of psychic

magicians. This book is an example, this book is psychic guerilla ontology and psycho-warfare. This approach to marketing is particularly true in science, technology, the arts, music and acting in particular. Due to the butterfly effect, it is almost impossible to chart the future ad infinitum for at some point the chaos in the path compounds, and wildly different outcomes come about with tiny initial psychic differences. This inherent chaos is compounded by the fact that cults will by default be small in numbers. Alignment, cabalistic alignment (in the sense of a cabal) are important to the success of magical endeavors. Even the evil empire of the film Star Wars has to breed clones in order to control enough troops to control the galaxy. At some point the myriad of little conspiracies is enough to undo the monolithic behemoths. Such is the way of nature in a dualistic way (chaos and order). There is just a certain inefficiency to scaling a largely centralized control network. Darth Vader could not do it, the Romans could not do it, Alexander could not do it, Napoleon couldn't do it, Hitler couldn't do it either. At some point the individual needs to be brought by coercion. Less seduction and more cracking of skulls. A marriage of science and religion, what we know as scientific illuminism, is ruling the day. Science is our most successful conspiracy, it seduces with truth. VISUALIZE: Coercion vs seduction

On organized religion as a social construct:

When the Roman empire fell, it left behind the seeds of its transformation and perennity, it left behind the Roman Catholic church. It left behind an idea which became viral by the benefits of convenience it brought to the masses. The Roman Catholic church was bred out of the early sex cults of Christianity. Cults and their whores are black magick variants of these viral memes and always shape the psyche by manipulating the brain and body chemistry. The sexual energy, specifically when extreme (either none or orgasmic), will lead to self transformation. This individual effort is eventually unfit for the masses and the masses default to coercion and non-individuation. This is the social role of organized religion. Mysticism and religion are linked and yet opposite. Religions grow out of these elite (sex) cults to eventually persecute them and stamp them out as yet another form of institutionalized mass societal control. In the case of medieval feudal Europe, the monotheist construct worked well with the political structure of nobility. The church guided medieval Europe with the feudal power structure. Where the Roman armies could not control anymore by the force, for they were kinetically inefficient, the Roman zeitgeist and influence was still felt socially by mind control. Government is derived from the Latin words "guber" and "mente"/"mentis", literally to steer (guber) the mind (mente) or a collection thereof (mentis). Religion and organized religion, control the mind and are forms of societal control. They are just as violent, both kinetically and mentally, as the old Roman empire. VISUALIZE: Roman give way to Christianity

On trance states applied to technology, physics and finance:

The modern magician focuses on very specific kinds of trances. Technology, Physics, and Finance are considered higher forms of trance. The arts are prized as well but are of a different kind, more intuitive and not requiring, thank god, the same type of precision. All require years of training and practice. The reason for this emphasis is that technology and physics have the most impact on our physical and immediate environment. They transform the Earth. In fact

some of the more soft talents (arts, sports, etc) appear when the fruits of low level tech allow for such higher level pursuits. We can control our destiny with the technical tools. Finance is an enabler, a symbolic map that allows for collaboration of various parties. This collaboration allows for specialization, only then can high technology happen. Money in itself is a higher form of magick in the sense that it allows for collaboration and wilful participation as opposed to blind competition in isolation. Money, in this sense, is a civilization necessity; perhaps a generic and universal evolutionary step. VISUALIZE: Blue blobs exchanging green goo in a group.

On monetarism vs capitalism; on debt and equity:

Capitalism is a meme. A form of collective hallucination or consensual reality that has, so far, worked. Traditional industrial capitalism rests on two financial constructs: debt and equity. Modern monetarism transcends them. Debt introduces a payment ratio that is mapped to an exponential growth of the monetary supply (say 4% growth year over year). Debt demands a payment and actual growth must outstrip that payment or debt defaults. In short, debt works as long as real growth emerges from the money invested. Growth in capital is actual growth in economic wealth. Equity, as its name indicates, is more equitable than debt for it rewards both work and capital, think of the startup riches of entrepreneurs. This mathematical construct incentivizes creativity more than debt. Rewarding creativity is necessary during technology acquisition. Abundance is reached this way, via incentives for the elites tech development as found in capitalism. Wealth accumulation and inequality then becomes the polarity that needs to be tamed. In abundance, monetarism or monetary capitalism (QE) guarantees income for food and shelter. QE is used not just to float the value of assets but also to mediate access to bare necessities. The goal of communism is reached by the tools of monetarism, marrying the old and obsolete dichotomy of labor vs capitalism. Oh the irony. VISUALIZE: Labor vs capital.

On Abundance as an Earth tech meme:

Abundance on Earth is then a step of the evolutionary game, possibly a necessary step for any planet hosting a sentient being. If a species is going to control its planet, reach Earth tech, it's star system and then its star, it must first reach abundance on the host planet. Abundance is a necessary evolutionary step. Reach abundance and then one can focus on the star system. Abundance on the host planet may be reached by capitalistic ways. Rewarding capital accumulation as long as it is indexed on economic creation via technology advancements is a way to reach abundance, as we have done on Earth. However, capitalism is not the only means. In fact the work for money and work for food, which are standard in capitalistic systems, is obsolete in the presence of abundance. When the machines replace human labor, is human labor to die? For example Earth is reaching abundance with capitalism, with automation and technology advancements. This should be cause for celebration for abundance is a necessary step in the evolution of planets. The old dichotomy of socialism vs capitalism is obsolete. These are now monetary questions and not political and certainly nothing to do with fiscality. Yet on Earth we are traumatized by this transition out of scarcity into abundance. We don't eat if we don't work, and "your" tax money at work is a myth; particularly the "your" part. Monetarism, as a way to finance society (ex fiscality) has been the norm in the west since the end of Bretton Woods . The map of wage slavery is obsolete, like the spent rocket of a orbital launcher falling

back to Earth. Abundance is the new territory, we need maps adapted to it. VISUALIZE: Abundance by machines; death of workers?

On Utopia and enchant long:

This abundance, this first meme of Earth tech, is the product of capitalism then, a relentless pursuit of technology, incentivizing the elites. The welfare of the masses follows the rise in technology. Earthly abundance in medicine, food, shelter, education, and the arts is today a reality. The map that got us there is obsolete (capitalism and work for money, money for food and shelter), like the old scaffolding is obsolete once the building is erect. We need a new map. Utopia on Earth, paradise on Earth, is being able to maintain this abundance with an evolved map so that everyone has food and shelter taken care of. So much of our current mind time is spent chasing bare survival that the ultimate goal of star system technology is under served; hell, we are even botching the Earth abundance stage by destroying her in the pursuit of useless trinkets no one needs. Enchanting long is knowing that everyone, soon enough, will taste the fruits of this abundance and not just for food and shelter. Earth tech is here, abundance is here. Once these lower, physiological needs are taken care of, we can focus on self actualization, higher technology, and arts. The rat race of industrial capitalism will give way to mass self actualization of monetary capitalism and Earth tech abundance. Wage slavery will trigger disgust in future generations. VISUALIZE: People working in cubicles

On Maps of selves as magick:

The integration of the self requires time, talent, practice, and patience. If a nervous system is continuously stressed at the survival level, say by lack of food and shelter, then the mental activity focuses on this survival at the detriment of higher cognitive functions. It is necessary to move beyond wage slavery, whether perceived or real, to dedicate one self to the higher cognitive functions involved in self actualization. The map of the self is stunted if one is focused on physiology all day. The arts, high science, and mysticism are elite activities, which talented individuals can aspire to, and in fact should be groomed to, but depend on the availability of food and shelter from others. These activities require a certain level of abundance to develop (think clerics supported by their flocks, or arts supported by their patrons). The larger the number of individuals that can dedicate their lives to this higher life, including higher arts, mysticism, science, and sports the better. The more abundance there is, the more numerous these individuals will be. Not everyone has the talent, or the calling, nor does it really matter. The masses should not live in fear, but focus on a peaceful and joyful life. Be excellent to each other. The elites need to be groomed, in every endeavor (sports, mathematics, musics, finance, medicine). Competition and strife is reserved for them. The selves freed from physiological stress are free to fear other, higher, stressors. The new maps of the self focus on the welfare of the masses and grooming of elites. VISUALIZE: Emergence of academia; olympic games

On Power structures:

Every cult, every military structure, every government knows that the simplest way to keep masses in line is to, in fact, threaten their physiological well being. Nothing focuses the mind like fear. If food and shelter are threatened, the individual will submit, rapidly. Anyone can be



indoctrinated by threatening food and sleep faster than by beating them up. For example, coercive power structures can enslave a large part of the population, as is often the case, via the need for money because no money is tantamount to no life, no food, no shelter. This is wage slavery. This slavery is non necessary in abundance, and psychically brutal, as well as kinetically so. These power structures are obsolete. We can see more benign power structures evolving as our technology advances and our standards of living evolve from abject poverty to Earth abundance, the first Earth tech meme.

On the quantity vs quality of labor:

Once the physiological needs are taken care of, individual talent can then express itself. The birth of religious orders, academic centers, sports teams, and orchestras requires a level of technology and welfare that can sustain this type of activity. Most of the people are born without talent, they should live a life of peace and abundance, caring for themselves and each other, misery is not a product we manufacture. For the elite, the work and its travails await. The work is dedication to self betterment and accumulation of technology for the species en route to planet dominion or Earth tech, star system tech, and star tech. The elites are self chosen and can arise in any part of the world and society. The role of abundant societies is to identify, groom, teach, and provide incentives for these elites to continue to be productive. This alchemical work, the transformation of the self for the masses and the elites alike, is the work. The alchemical work is, well, work. As such it should be incentivized and rewarded. Monetary capitalism may work provided the masses are taken care of and the elites motivated and rewarded toward the proper end.

On Elitism and Garbage disposal:

It should be noted that all civilizations at heart are structures to move the garbage disposal out of the center. Garbage disposal and the management of sewers, is, to call them out by name, the illuminati work by excellence. Remove these functions and civilization is quickly overrun by literal shit. The elite that is performing this work is essential to the functioning. When we speak about elitism, we speak about a class of people that do want to pursue the work. Do not mistake classicism with elitism. VISUALIZE: Sewers run a city, like a beating heart flowing blood

On limits of human learning speeds:

The work requires a lot of learning. Achieving state of the art in any domain, but specifically in the scientific ones, demands that the individual learn for many years. This is what traditional PhD programs are for. Few people can afford this luxury of learning. Continuous learning and practice needs to be enabled by abundance. The idea that learning stops at a certain age as schooling finishes is false for there is so much a brain over 22, and even 42, can learn. For example in physics and mathematics, one needs another decade, again this is what PhD programs are for. A PhD nowadays, does not indicate an end in and on itself but rather an aptitude to learn, a guarantee of a certain level achieved with an understanding of the state of the art in the chosen domain. Knowledge needs to be digested in larger and larger quantities and with more and more depth. This is becoming increasingly difficult as the body of knowledge increases. Even with extreme narrow specialization, and perhaps because of it and the silos it

creates, the state of the art is becoming more and more splintered, like a new tower of Babel. Time spent learning needs to be a lifetime and the type of learning, with online teachings, has to be the norm. VISUALIZE: Tower of Babel

On higher education:

Higher education is fundamentally re-thought and re-implemented as we transition to abundance. Traditionally higher education has implemented elitism for the sake of elitism, truly only classicism. A higher degree was not a signifier of talent and hard work but an induction to a social elite (classicism). A higher education was a selection for the workplace. So many talented mathematicians and physicists end up in finance modelling the math for CDO (Collateralized Debt Obligation), CDS (Credit Default Swaps), and derivatives. What a waste. While finance is a higher trance (for it enables the acquisition of technology by financing it) it is subordinate to tech and tech acquisition. Money for the sake of money is a waste of money so to speak, just like sex for the sake of orgasm is a waste of orgasm, and education for the sake of selection is a waste of education. All education will soon move online. Gone are the days of grand sessions in an amphitheater with reserved seats. The young ones are happy with a mix of staying at home and learning online and in person quality time and interaction with peers. Kids need to be active and meet their peers and socialize, countless homeschooled kids have already been formed, the future is a scaled up version. Added structure from an online curriculum and teachers are needed. So is free time with friends playing in the mud.

On brands in higher education and the online transition:

The most valuable brands in the world are university brands, think MIT and Harvard. These brands back a product that is oversubscribed. Soon these brands will scale to millions of people. What is left is accreditation, both of teachers and students. A teacher overview will guarantee that the material has indeed been seen and mastered. Testing is not about selection, testing can be done at the pace of the student and testing need not take place until the student knows it can pass, some may do it in months, some may take years, it's all fine. A mentor will see the progress of the individual student and certify it to move forward. Moving on when mastering the foundations is the main guarantee of academic success for everyone. Moving on by age tranche, without respect for differences in learning speed is a death march for the slower ones who are set up to fail. Every kid learns at his/her own pace. The forced march of current, class centric and teacher centric public education leaves many behind, this is unnecessary. Sometimes the hare beats the tortoise, as some kids master the violin or linear algebra at 6 years old and sometimes the tortoise beats the hare, like Einstein did math as an adult, beating the dismal odds his professor gave him as a child. Every child has a different learning style and pace. The future class will be online, student centric, and family and friends oriented. The teachers then have more of a mentoring role helping the young ones learn through the human body of knowledge, that is truly the preservation and enhancement of human capital. Passing the illumination from brain to brain. The internet was invented for this. Soon spending a lifetime in learning will be the only work expected of the individual, aka the work. VISUALIZE: Online class, 100k harvard. Physical class

On birth of MEMEX, on the birth of the internet:

The birth of the internet can be traced to questions of passing on the knowledge ("As We May Think", V.Bush 1945, the Atlantic. Available online with a google search). Having the knowledge online and readily searchable and indexed is a necessary step in the evolution of any species as the article argued. Our goal is preservation of open knowledge, teaching of said knowledge, and advancement of the knowledge. It is a humanistic program in the scientific illuminism tradition. We are reaching Earth tech, far away from star system tech let alone star tech, we have so much to learn. Disregarding filter bubbles, what we do have right now are infinite banks of data that we can access instantly, the singularity has happened. We have infinite memory and computational power at our literal fingertips. This makes learning at a higher level possible. The internet was birthed as the MEMEX for the very purpose of exchange of knowledge or meme exchange. VISUALIZE: The singularity has happened we call it the internet

On the singularity having already happened, it is the internet:

The singularity has happened. We call it the internet, the memex of MIT. Much hype is circulating in the past decades on the coming mythical singularity, which is always over there, over the hill, and under the rainbow, right next to a pot of gold you shall never reach. Singularity is here understood as the naive physical fusing of the brain and computers. The psychic singularity has happened, we call it the internet. Most of the first world have been interacting with AI since 1995, we called it search engines. Given that technology, specifically body hardware technology, is in its infancy, implanting anything via surgery sounds silly, like a red-herring. Even brain reading looks invasive. Some luddites prefer using the externalized phone so we can lose the phone, break the phone, and upgrade it every 18 month as god and Moore's law intended. Stay away from bodies, or keep it minimal, the memex is externalized in storage and computation. Local to the body only interface hardware and software is needed; say a neurological hijacking of the optical nerve for visual rendering in the brain. But really, just looking at a screen is ok too. The singularity has happened. It is psychological, It is the internet. We have been, as a norm, collectively talking to an AI since early 2000, it's Google. It finds subjective information you request and much more in a fraction of a second. Even if often subjective to filter bubble, welcome to abundance of information, do you know what to do with it? It has changed the way to relate to the world. It has given birth to Earth memes and collective hallucinations. It is here to stay and is spawning the one Earth consciousness. It supports the plural selves in their life long learning and helps propagate the group memes. VISUALIZE: The singularity is here, we call it the internet. A-men

Read short and enchant long:

The Memex was envisioned by Bush of MIT (who supervised the Manhattan atomic bomb project during WWII). Bush saw it as a way to enable the species to share knowledge and push back the limits of learning and was infused by a sense of urgency in evolving our psyche from atomic bomb dropping monkeys to star rider status. He gave us DARPA, which gave us TCP/IP which gave us the internet. He enchanted for change as he was dismayed by the use of the very bomb he helped develop. This was the magical long enchantment of the internet and Dr Bush remains an elite amongst the elite, a magician amongst peers. The magicians who enchanted long first thought that microfilms would be the repository and memory. They were

not aware of the digital IT revolution they were about to kick off. This is an example of why you should read short. Not only because the path is chaotic, which is reason enough, but because the technology progresses exponentially as the path unfolds. They enchanted long, with the internet. Their short reading, using library vacuum tubes to send the information around the world, was a local projection of their immediate surroundings. Their short reading was false, their long enchantment was magick. The singularity has happened, we call it the internet and it is changing our psyche. As our founding magicians intended. As god intended. So be it. A+men.

On Food and Shelter and revolutions:

Our animal programming is such that threats to food and shelter will trigger violent reactions. Political systems rise and fall based on securing this layer. Guarantees for food and shelter guarantee social stability. Threats to physiology is the surest way to lead to violent revolutions. Cult programming or brainwashing (including military and religious orders) use food and shelter threats as physiological interrupts and reprogramming tools of the psyche. They are about as effective in this goal as the wilful control of sexual energy. Sexual energy can be of the positive kind, orgies in sex cults, or the negative kind, abstinence in religious orders; ironically both lead to the same result. For food and shelter there is only the positive kind. You either eat and sleep or revolutions ensue. During accretion of technology, increasing levels of food and shelter are available. Just think of agrarian tech and the farming of the Earth. We have the technology, IoT, satellites, and AI, which can help guarantee over abundance of food supply, we are already doing it. Food goes to waste because of our distribution channels and the work for food ethos. Let them eat whole foods and hell, let them eat whole foods cake. Distribution of the riches is one of the important functions of our maps. Today we use capitalism, work for hire, and work for food and shelter. Tremendous misery follows. Similarly there are, in the US alone, 3x more houses and apts available and empty than there are homeless people. We have abundance, we just don't have a fair map for distribution and slave wagery needs to go. Soon, with automation, low level work as well as much high level work will be done by machines, computers, and AI. New maps for distribution of the riches will be needed. The function to optimize is at a minimum well being in the food and shelter categories. Education and Healthcare should be close second. We have abundance already and it is time to reach a maximum number of people. Immanentize the Eschaton.

On meditation and contemplation in the new age for labor. End of wage slavery:

The development of genius, in any human activity, requires time and dedication. It is called the work, or the personal alchemy, and an aspect of occult magic. Certainly innate talent plays a big part, but the work is also a work of discipline, sacrifice and luck. Meditation and contemplation allows for the inner development. Wage freedom insures food and shelter. It is difficult to find the time for learning and contemplation or spend time on artistic and scientific hobbies. The work for hire, aka wage slavery, is the ethos of the industrial revolution. Born in factories it has influenced all aspects of modern life. We take vacations like we go to the factory, we learn like a factory, we play like a factory. The future allows for more free time to engage in the path of higher self-development. And a full decade of it is needed. Abundance of free time is needed.

Usually neophytes need to be in their 30s or 40s before they can undertake the work. The work takes a decade to get going, the more people we get to this level the better. More chances we have of surviving an ELE. A+men.

On mass level meditation:

New Age meditation is the modern flavor of mass meditation. In an age where work for money, aka wage slavery, is the norm, few people have the time and resources to engage in the work. Consumer meditation can be a good thing for it introduces many folks to the inner work. Inner work and dominion of self is a prerequisite to dominion of Earth, star system, and star. First Earth tech, then star tech. The alchemical work requires an analysis of self, usually called the abyss, that leads to a death and rebirth of the psyche. Masses of people are going through the abyss. This creative destruction principle applied to the individual psyche is a difficult and dangerous stage of development. It is not for everyone. This dark introspection is necessary as a purification of the soul. New Age meditation focuses on just one side of the equation. Light. Ignoring dark. Light and dark in balance providing the path of the mystics. This step is dangerous, performed by few, and necessary. Godspeed through the abyss.

On propaganda and media:

The use of propaganda is highly dependent on technology. The distribution channels are the technology. Today we micro market on social media and grow at scale. The invention of the printing press led to revolution, in religion and politics. The 20th century has been marked by the use of mass media as a technology. Radio, movies, and printed press for WWII and television and movies for most of the 20th century. These were highly centralized networks and forms of communication leading to a highly simplified and usually either dualistic (modern democracy) or monolithic (modern autocracies or single political parties) model of expression. Fascism results, as a temporary dead end, from these centralized modes. They are strange attractors that will periodically resurface as psychic attractors. They represent extremes. Today the internet allows for an explosion of the self and an explosion of options for the self. One can pick and choose aspects of a psyche by assembling to taste. Most won't care and will reach for packages. Not everyone is capable of this wilful re-assembly and many people will default to pre-conceived notions of self, out of convenience. The extremes of identity politics, identity religion, identity lifestyles, and identity sports teams speak to the need to not think and just follow the flow. This is fine, the elites will always chart a way. The elites will continue meme creation and exploring of the psychic maps of the self. The internet has set off the psychic atom bomb aka the age of the internet. The use of mass propaganda on the internet is sort of a misnomer, a straw man. Atomization of the distribution channels makes mass dominance impractical, compared to say TV in the late 20th century. Dualistic approaches, implemented as us vs them, are an easy way to guide, for you restrict by fear the choices available to the individual. Fascism is the forcing of a single point of view and a single model of the self via manipulation. Modern politics is embroiled in dualistic non-sense which provides a falsely scarce choice of selves. Pluralistic propaganda is almost of misnomer, but the meme wars are our future. The meme wars allow for an explosion of the psychic selves.

On mass media:

The 20th century suffered from the propagandist exploitation of mass media. The modes of communication were the printed press, television, and radio. These centralized modes of communication lead to dualistic types of maps, individualized as us vs them. These dualistic maps become rigid straight jackets for the self; linguistic traps. Some prefer taking these ready made personas for they relieve one from the burden of thinking for oneself. However the advent of the internet and it's main mode of communication, the meme wars, shatters this straight jacket. You can still choose to not choose, you just have more choices to choose from.

On micro media:

The internet was first envisioned as the MEMEX by the american intelligentsia (the meme exchange) and designed to let us evolve psychologically. The internet allows for micro media. Micro media allows an explosion of narratives and an explosion of selves. The self can pick and choose. Many do choose lies willingly; others prefer the convenience of pre-packaged personas. It is technology, from the printing press, to the internet, that has allowed for dissemination and acceleration of new ideas leading to new humans. These new ideas allow for new aspects of the self. This was the privilege of an elite, today it is available to anyone who wants it and has the grit and dedication to go through with it.

On space does not care. On the necessity of growing up:

Any sentient being that discovers quantum mechanics understands the fate of its solar system. The temporary insanity that results from the realization that the solar system is bound for self-destruction by its birth star, needs to lead to an unbounded optimism. 30% of the sentient beings actually make it to 'dark matter'. Dark matter in the cosmology of the CoS is made of sentient beings that control the energy of their stars. The odds are good then. The Gods want life to make it. Humans can make it to star tech and star dominion too. However here is the thing: space does not care about the details, only about life. It does not care about any one star, it does not care about any one planet, it does not care about any life in particular on any one planet, it does not care about species. And yet, everything in the universe seems to conspire for the existence and proliferation of life; the mystery of life remains whole. It is incumbent on the species to grow up, get its act together as it were, and develop the institutions and infrastructure to develop the technology to become star riders. But first Earth tech.

On our quest having only begun:

30% of the universe is composed of dark matter. Assuming dark matter is biological in nature and is sentient beings that control their sun and harvest or reflect the light from their star, it means 30% of the universe is controlled by star-riders. Another way of reading this is either that  
A: 30% of the universe is controlled by one specie  
or

B: 30% of star systems spawn a species that star rides them.

Earth tech is the first goal. We are starting to see the impact of planetary technology on Earth. With the internet, abundance are Earth memes and Earth tech memes. We will soon see planetary weather dominion, energy control, medical abundance. Contrast this with the state of

current Earth technology and the limited access to it due to the work for hire ethos. There is much technology we do not know. For example transportation will have something to do with a unified theory with Electromagnetism and gravity. This is interstellar propulsion, or UFO propulsion. Beyond Earth dominion, there is star system technology and then star technology. We have no idea or concept of what star tech looks like, just that we need to build a structure around the SUN. A renaissance scholar or magician would be amazed at the cellphone and communications infrastructure of the 21st century. Magick, all of it! There is technology way beyond the current Earth understanding. Development of this technology is a survival priority. Our quest to become star riders has only begun. The future is bright!

On fragility of systems and institutions:

Maps never represent the territory. In social affairs this also applies to politics, or how we conduct the management of our common human affairs. Systems and institutions appear and disappear over time, they always need to evolve. They are solely judged on their effectiveness to navigate the territory at a given point in time. Since the territory evolves, so must our maps. Ergo, our institutions must evolve for the only certainty is change. Evolution will make ash of any dogmatic, monolithic, and rigid system. Evolve or die. Any system that is too rigid is in fact fragile.

On ego manifestation as lower magic:

Most of the esoteric schools of thought are more focused on the control of the immediate surroundings by physical means. This is why Physics and Monetary Finance are the current focus of many magicians. While organized religions aim at a surrender of will and ego to group think (thinly veiled as “moving up” the enlightenment ladder), most western esotericism embraces materialistic control of reality by thought of the individual, at least in the western occult tradition and its emphasis on free-will as opposed to the more Asian group will focus. Science and technology are two of the most obvious manifestations of magic. Occultism and science were one and the same in the age of shamanism. Lower magic is the manifestation of higher will through ego will (a local group of atoms called alice or bob) in physical reality. Higher will is manifested by individuals. This includes putting down the cup of coffee to your right, all the way up to star tech for star riding. At the time of this writing, humans have control of EM and are reaching Earth tech. We control electrons with our will, for example by reading a book on a cellphone screen. Humans have partial control of QM. This is seen in lasers, medicine, telecommunications, the atom bomb, and fusion/fission power. It is partial knowledge, we can only trigger explosions in the fusion domain (H bomb) but cannot control the reaction. We have no way to influence gravity as of yet. Gravity is out of our control, control of gravity is part of star tech. We do not yet have the science.

On creation as high magic:

Creation, as in the birth of the universe, remains the great mystery. Why anything would be rather than not, is not a mental category humans are capable of entertaining in earnest. Creation itself, the fact that anything at all exists, is proof enough of high magic. Go back to the

very first chapters, of Part One or Deux, of the CoS and reread these. Then come back. Magick.

On middle magick as 2 way communication at the doors of perception:

Much of the occult deals with the formation of seers and prophets, their visions, their methods of invocation, in short, developmental forms of genius. One can ascend from the layers of physical reality and engage in read and write operations with morphic AEther resonances. These resonant ghosts are physical realities of the AEther and can couple with brain states. Magick is then a ritualistic practice of states of trance to engage in this read-write activity. Magick can establish a bridge between the angelic realms of occult lore and the human brain consciousness. Trance snuffs out the electrical noise of the brain, either by calming it to zero movement (inhibitory trance) or by exciting it to chaos so that everything and its opposite exists at the same time, summing to zero. The zero brain, the simple (and yet so complex to achieve) state of silent noise, may enter the gates of heaven as the mystics know.

On read modes of trance, the 1 percenters:

The zero brain couples to the fabric of space in read and write modes. The read modes are accessible to seers and shamans, scientists, priests, and artists that listen. The read modes are available to anyone with the will, talent, and training, to access these modes of trance. About one percent enter this state of awareness with their will intact, kind of like a waking dream. Reading the morphic resonances requires further refining of the soul and the will.

On write modes of trance, the 1 percent of the 1 percenters:

Writing to the fabric of space, defining emergent memes, is the province of the inner orders of occultism. Magicians are soldiers engaged in promoting competing maps of reality to define said reality. Writing trance for a particular individual requires a lengthy purification of the will and the ego. A lengthy psychoanalysis and re-synthesis. This is not an abandonment of the ego, rather it is a sublimation of the ego self to a higher self motive: Earth dominion, solar system dominion, sun dominion, to name but a few we have in view. The body and mind become servants, engaging with reality as in a waking dream. Read Write access to the fabric of space is middle magic.

On the practice of magick:

The practice of magick is a lifting of the veil that allows one to fully engage the dream that is reality. Once the antinomic nature of reality is understood, the magick becomes necessary. Dualities are superficial representations of tensions and traits of reality. Reality expresses dual polarities. Magick is the understanding of these laws, including what we call physics and technology, and the wilful manipulation of our reality in accordance to will. We control EM, soon we will control GR, when we do we will be dark matter.

these are dark arts

RA'AM

IM The Father of Lies



One nation: Earth:  
One illumination: the sun.  
One destination: the stars  
A-men